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| Alexander Erden | |  | | --- | | [AXERDENJOB@GMAIL.COM](mailto:AXERDENJOB@GMAIL.COM) | | 925-395-4217 - Los Angeles, CA | | [AlexanderErden.com](http://www.alexandererden.com)  [LinkedIn (www.linkedin.com/in/axerden)](http://www.linkedin.com/in/axerden) | |

# Summary

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| * Demonstrated proficiency in thriving within high-pressure, deadline-driven environments, consistently delivering exceptional results. * Skilled leader adept at guiding and mentoring development teams, leveraging extensive experience in team supervision and training. * Possesses an exceptional technical aptitude and visionary outlook, consistently displaying the ability to rapidly grasp and excel in novel concepts and emerging technologies. |
| |  |  |  | | --- | --- | --- | | Skill | Rating (1-5) | Experience (Years) | | |
| |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | Lead Development | 5 | 10+ | | Project Management | 5 | 10+ | | Architecture | 5 | 10+ | | Back-End | 5 | 10+ | | DevOps | 5 | 10+ | | Full-Stack | 5 | 10+ | | Web Services | 5 | 10+ | | Cloud | 5 | 10+ | | Front-End | 4 | 10+ | | |  |  |  | | --- | --- | --- | | UI/UX | 4 | 10+ | | CI/CD | 5 | 10+ | | Windows | 5 | 10+ | | Linux | 4 | 10+ | | MacOS | 4 | 10+ | | Android | 4 | 10+ | | iOS | 4 | 10+ | | 3D | 4 | 10+ | | ML/AI | 3 | 2 | | |  |  |  | | --- | --- | --- | | LLM | 1 | 1 | | AWS | 3 | 4 | | Azure | 3 | 8 | | GCP | 2 | 2 | | C# | 5 | 10+ | | C/C++ | 5 | 10+ | | Java | 5 | 10+ | | Javascript | 5 | 10+ | | SQL | 5 | 10+ | | |  |  |  | | --- | --- | --- | | VB | 5 | 10+ | | Python | 4 | 10+ | | Kotlin | 3 | 2 | | Objective-C | 3 | 10+ | | Swift | 3 | 2 | | Docker | 3 | 3 | | Kubernetes | 3 | 2 | | Terraform | 2 | 1 | |  |  |  | |   [Additional Skills v](#_Additional_Skills) | |

# Experience

## Recent

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | | ARCortex | 2023 | | Principal Developer / Architect | |   AR AI Research Software  C# C++ Python .NET Unity PyTorch OpenCV ROS Hololens MRTK ML AI LLM Kubernetes | * Led the development of a groundbreaking application extending Augmented Reality technology. * Designed an intuitive system that guides users through tasks using object detection, voice recognition/synthesis, and Large Language Models (LLMs) for enhanced interaction and functionality. * Directed a skilled AI research team, fostering collaboration to ideate and implement cutting-edge solutions, significantly advancing project objectives and technological innovation. |
| |  |  | | --- | --- | | Microcenter | 2022 | | Senior Software Developer / Architect | |   [E-Commerce Website](https://www.microcenter.com/)  C# JavaScript .NET Blazor SQL ASP.NET HTML Docker Azure | * Spearheaded the design and development of pivotal payment features for an e-commerce website. * Played a central role in enhancing payment processing efficiency and fortifying security measures. |
| |  |  | | --- | --- | | Omnicell | 2021-2022 | | Principal Developer / Architect | |   [Automated Medicine Cabinets](https://www.omnicell.com/)  C# JavaScript .NET SQL Angular13 Node.js HTML WebServices Docker Kubernetes Kafka Elasticsearch Azure | * Conceived and crafted significant functionalities for automated medicine dispensing cabinets integral to hospital operations. * Engineered subsystems to manage pharmacy discrepancies with precision and effectiveness. * Led efforts to migrate legacy architecture onto modern, cloud-based platforms, enhancing scalability and adaptability. |
| |  |  | | --- | --- | | Mygrant | 2019-2021 | | Director of Engineering | |   [Inventory Systems](https://www.mygrantglassonline.com/)  C# Java JavaScript .NET SQL Node.js HTML WebForms WebServices Salesforce Apex Azure Objective-C iOS EDI OLAP | * Spearheaded the development of internal and external company systems, driving technological advancement and efficiency. * Directed initiatives to refine warehouse inventory management systems, optimizing operational logistics. * Enforced coding standards, facilitated rigorous code reviews, and crafted robust software architectures. * Innovated and collaborated on various internal and external tools integral to orchestrating a seamless national supply chain. * Led strategic recruitment endeavors, fostering team growth and expanding technical proficiencies. * Collaborated directly with customers to conceptualize and engineer tailored solutions for processing orders across diverse systems. |
| |  |  | | --- | --- | | Smartmatic | 2019 | | Software Architect | |   Voting Machines  C++ Python Linux Smartcard TPM | * Played a pivotal role in fortifying the security infrastructure of voting machines, contributing to the integrity of democratic processes. * Innovated by implementing crucial security features, leveraging Smartcards and Trusted Platform Module (TPM) devices to heighten system resilience and safeguard against vulnerabilities. |
| |  |  | | --- | --- | | ARCortex | 2019 | | Software Architect | |   Presentation Software  C# .NET MagicLeap Unity 3D AR | * Orchestrated designing and developing an innovative Augmented Reality application tailored for crafting and capturing virtual presentations. * Engineered and integrated, intuitive routines that empower users to choose and position 3D objects in real-world environments. * Merged cloud services to enable advanced speech recognition capabilities, enhancing user interaction and overall application functionality. |
| |  |  | | --- | --- | | Catalyte | 2018 | | Senior Software Developer | |   [UV Lithography](https://en.wikipedia.org/wiki/Extreme_ultraviolet_lithography)  C C++ Python Linux | * Contributed to the evolution of an ultraviolet lithography machine used in semiconductor production by creating new functionalities and addressing product defects. * Developed subsystems to read designs and control etching process. |
| |  |  | | --- | --- | | Capitol | 2018 | | Senior Software Developer | |   Event planning / Distribution Site  C# .NET Javascript Angular SQL Node.js HTML ASP.NET WebServices Azure | * Championed the development of an event planning and tracking system pivotal for national product shipping and distribution. |
| |  |  | | --- | --- | | BCN Financial | 2018 | | Senior Software Developer | |   Financial Platform  C# JavaScript .NET SQL Angular Node.js HTML WebServices Azure | * Conceptualized and executed modifications for a client-server financial investment management application. * Collaborated on feature implementations to streamline automated mass customer communication, enhancing customer retention. |
| |  |  | | --- | --- | | Trueblue | 2017 | | Senior Software Developer / Architect | |   HRMS Platform  C# .NET Javascript Angular SQL HTML ASP.NET WinForms WebServices Azure | * Pioneered the integration of novel geolocation and tax planning features within an HRMS platform, elevating functionality and utility. |
| |  |  | | --- | --- | | Aquaconnect | 2014-2017 | | Lead Developer / Architect | |   [Remote Desktop](http://www.aquaconnect.net/)  C++ WinSDK QT Drivers Java Objective-C OSX iOS Android Linux | * Pioneered the design and spearheaded the development of a versatile cross-platform remote desktop and application platform, enabling seamless connections across Windows, Mac, iOS, Android, and Linux environments. * Architected an advanced network server infrastructure tailored to accommodate operations across a spectrum of scaling environments – from small enterprises to Fortune 100-level clientele. * Undertook the strategic responsibility of recruiting and leading a proficient development team, ensuring their alignment with the project's goals. Managed and ensured the timely delivery of product milestones and adhered to schedules. |
| |  |  | | --- | --- | | Who | 2014 | | CTO | |   Social Network  JavaScript Angular Ionic PhoneGap Cordova Node.js Objective-C Java IOS Android HTML CSS | * Spearheaded the establishment of a cutting-edge mobile location-centric social network, driving innovation in social connectivity. * Assembled and nurtured a dynamic startup development team, fostering a collaborative and driven work environment. * Facilitated seamless collaboration between developers and the design team, ensuring a cohesive and user-centered product experience. * Pioneered the setup of critical company software systems and infrastructure, laying the foundation for operational efficiency and growth. * Collaborated closely with founders to conceptualize, evolve, and maintain a comprehensive short- and long-term roadmap, aligning technological strategies with business goals. |
| |  |  | | --- | --- | | OpenMobile | 2014 | | Principal Software Developer | |   Android Emulator  C++ WinSDK Java Android Linux | * Innovated by conceptualizing and implementing a revolutionary architecture for fundamental Android subsystems, facilitating direct interaction with Windows APIs within an Android Emulator. This breakthrough enabled Android applications to achieve semi-native functionality on Windows platforms. * Spearheaded the design and development of novel components, serving as alternatives to essential segments of the Android operating system. These replacements encompassed critical areas such as the UI Stack, Networking infrastructure, and Audio frameworks. |
| |  |  | | --- | --- | | Lumier | 2011-2014 | | CTO | |   [Cross-Platform Operating System Shell](http://techcrunch.com/2011/05/24/lumier-adds-a-new-coat-of-paint-to-windows/)  C++ C# .NET WinSDK WinDDK WPF XAML COM Direct2D Direct3D WCF Web\_Services MSI WIX | * Conceptualized, executed, and guided the development of an intricate multi-platform operating system shell designed to function seamlessly across Windows, OSX, and Linux environments. * Orchestrated the design of a cutting-edge graphics UI framework that stood on par with renowned frameworks like WPF/XAML, enhancing user interface aesthetics and functionality. * Devised and executed strategic approaches for R&D hiring and outsourced project assignments, ensuring alignment with imperative timelines and objectives. * Oversaw the comprehensive project schedule, SCRUM teams, reporting mechanisms, financial allocation, engineering planning, and optimization of project efficiency and outcomes. * Led and mentored multiple dynamic development teams, fostering an environment of collaboration, innovation, and high-performance achievement. |
| |  |  | | --- | --- | | Browsium | 2014 | | Principal Software Developer | |   [Web Browser Add-ons and Proxies](http://www.browsium.com/)  C++ C# .NET WinSDK | * Spearheaded the design and development of innovative web browser plugins and proxies, enabling seamless integration and functionality of legacy web applications with modern browsers. * Actively mentored junior developers, fostering skill development and professional growth within the team. |
| |  |  | | --- | --- | | CustomerLobby | 2013 | | Software Architect | |   [Retail Cloud Client](https://www.customerlobby.com/)  C# .NET SQL WPF WCF ASP.NET HTML JQuery JSON Javascript MSI WIX Firebird Quickbooks Web\_Services | * Orchestrated the design and development of a robust cloud-based system, integrating diverse local data sources (SQL, Access, Quickbooks, Firebird). Streamlined data transformation and uploading processes for efficient customer engagement. * Partnered closely with company executives to align product development with key business objectives, ensuring a cohesive and market-responsive solution. |
| |  |  | | --- | --- | | HopTo | 2013 | | Lead Developer | |   Mobile Touch apps for MS Office  C++ C# .NET Java Objective-C IOS Android | * Pioneered a cutting-edge remote desktop framework that enables editing of Microsoft Office documents on mobile devices while operating directly from a PC. * Conceptualized and executed a robust cloud infrastructure tailored for hosting Microsoft Office applications, enhancing accessibility and efficiency. * Spearheaded the development of intuitive mobile applications for both iOS and Android platforms, facilitating seamless access to the remote desktop framework. * Directed and upskilled a team of developers, enhancing team competencies and driving successful project execution. |

## Early work history

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| --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | | Microsoft |  | | Senior Software Engineer / Lead | |   C++ C# x86\_Assembly RISC/Alpha VBScript Win32 XML MFC ATL COM .NET XSLT ASP.NET HTML MSI WIX VBA SQL OLAP WMI JavaScript Access WTL MMC DirectX | [Windows 7](https://en.wikipedia.org/wiki/Windows_7) · Mobile Media · [Windows Vista](http://en.wikipedia.org/wiki/Security_and_safety_features_new_to_Windows_Vista#Preventing_exploits) · [Windows OneCare](http://en.wikipedia.org/wiki/Windows_Live_OneCare) · MSN Support Metrics ·  [Operations Manager](https://en.wikipedia.org/wiki/System_Center_Operations_Manager) · [Flight Simulator](http://en.wikipedia.org/wiki/Microsoft_Flight_Simulator) · [Works Launcher](http://en.wikipedia.org/wiki/Microsoft_Works) · Windows 2000 · [DirectX](http://en.wikipedia.org/wiki/DirectX) · [SMS Server](https://en.wikipedia.org/wiki/Microsoft_System_Center_Configuration_Manager) ·  [Visual Sourcesafe](http://en.wikipedia.org/wiki/Microsoft_Visual_SourceSafe) |
| |  |  | | --- | --- | | Misc |  | | Lead Developer / Architect | |   C C++ C# Java x86\_Assembly VB VBScript Javascript SQL .NET MSI WIX COM NHibernate X12 WPF WinForms XML DDK InstallShield ASP.NET ADO.NET HTML XSLT XHTML MFC ATL OLAP DirectX WinSDK ODBC dblib OpenGL WinCE Win32 | MSI Setup Packages · [Healthcare Billing](https://www.plexishealth.com/) · [Image Search Engine](http://en.wikipedia.org/wiki/Reverse_image_search) · [LithTech](http://en.wikipedia.org/wiki/LithTech) · Video Editing Application · Job Search Engine · [Identity Theft Prevention](https://www.transunion.com/identity-theft-protection) · Web Monitoring Application · MS Exchange Reporting · Physical Security System · [ArmyMen](http://en.wikipedia.org/wiki/Army_Men) · Intel LOD Mesh SDK · 3D Engine · [Ultrasonic Visualization](http://en.wikipedia.org/wiki/Ultrasonic_testing) · [Desktop Label Contacts App](http://www.seagullscientific.com/label-software/barcode-label-design-and-printing.aspx) · E-Commerce Web Sites · Order Entry System · Word Processor · [Application Launcher](http://en.wikipedia.org/wiki/Packard_Bell_Navigator) |

# Additional Skills

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| --- | --- | --- | --- |
| |  |  |  | | --- | --- | --- | | Skill | Rating (1-5) | Experience (Years) | |
| |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | .NET/Core | 5 | 10+ | | ASP.NET/MVC | 5 | 10+ | | Boost | 5 | 10+ | | HTML/CSS | 5 | 10+ | | REST/SOAP | 5 | 10+ | | WPF | 5 | 10+ | | XAML | 5 | 10+ | | XML | 5 | 10+ | | Angular | 4 | 5 | | DirectX | 4 | 10+ | | Drivers | 4 | 10+ | | EDI | 4 | 8 | | EntityF | 4 | 10+ | | |  |  |  | | --- | --- | --- | | Hololens | 4 | 1 | | NHibernate | 4 | 10+ | | OpenGL | 5 | 10+ | | UWP | 4 | 5 | | X86\_Assembly | 4 | 10+ | | AR | 3 | 2 | | Apex | 3 | 2 | | Cordova/PG | 3 | 2 | | Dapper | 3 | 1 | | Electron | 3 | 5 | | Ionic | 3 | 2 | | MagicLeap | 3 | 1 | | Node.js | 3 | 5 | | |  |  |  | | --- | --- | --- | | Qt | 3 | 6 | | Salesforce | 3 | 2 | | Unity | 3 | 2 | | VR | 3 | 2 | | Xamarin | 3 | 2 | | Elasticsearch | 2 | 1 | | Kafka | 2 | 1 | | MRTK | 2 | 1 | | OpenCV | 2 | 1 | | PyTorch | 2 | 1 | | ROS | 2 | 1 | | RabbitMQ | 2 | 1 | | TensorFlow | 2 | 1 | | |  |  |  | | --- | --- | --- | | ADO.NET | 5 | 10+ | | ATL/WTL | 5 | 10+ | | COM | 5 | 10+ | | MFC | 5 | 10+ | | MSI | 5 | 10+ | | OLAP | 4 | 10+ | | WCF | 5 | 10+ | | WIX | 5 | 10+ | | WebForms | 5 | 10+ | | WinForms | 5 | 10+ | | Matlab | 3 | 2 | | GraphQL | 2 | 2 | | Win32 | 5 | 10+ | | |