Alexander Erden

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Summary

- 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)	Skill	Rating (1-5)	Experience (Years)	Skill	Rating (1-5)	Experience (Years)	Skill	Rating (1-5)	Experience (Years)
Lead Development	5	10+	UI/UX	4	10+	LLM	1	1	VB	5	10+
Project Management	5	10+	CI/CD	5	10+	AWS	3	4	Python	4	10+
Architecture	5	10+	Windows	5	10+	Azure	3	8	Kotlin	3	2
Back-End	5	10+	Linux	4	10+	GCP	2	2	Objective-C	3	10+
DevOps	5	10+	MacOS	4	10+	C#	5	10+	Swift	3	2
Full-Stack	5	10+	Android	4	10+	C/C++	5	10+	Docker	3	3
Web Services	5	10+	iOS	4	10+	Java	5	10+	Kubernetes	3	2
Cloud	5	10+	3D	4	10+	Javascript	5	10+	Terraform	2	1
Front-End	4	10+	ML/AI	3	2	SQL	5	10+			

Additional Skills v

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
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
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
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
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
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
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
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
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

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 · Mobile Media · Windows Vista · Windows OneCare · MSN Support Metrics · Operations Manager · Flight Simulator · Works Launcher · Windows 2000 · DirectX · SMS Server · 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 · Image Search Engine · LithTech · Video Editing Application · Job Search Engine · Identity Theft Prevention · Web Monitoring Application · MS Exchange Reporting · Physical Security System · ArmyMen · Intel LOD Mesh SDK · 3D Engine · Ultrasonic Visualization · Desktop Label Contacts App · E-Commerce Web Sites · Order Entry System · Word Processor · Application Launcher

Additional Skills

Skill	Rating (1-5)	Experience (Years)						
.NET/Core	5	10+	Hololens	4	1	Qt	3	6	ADO.NET	5	10+
ASP.NET/MVC	5	10+	NHibernate	4	10+	Salesforce	3	2	ATL/WTL	5	10+
Boost	5	10+	OpenGL	5	10+	Unity	3	2	COM	5	10+
HTML/CSS	5	10+	UWP	4	5	VR	3	2	MFC	5	10+
REST/SOAP	5	10+	X86_Assembly	4	10+	Xamarin	3	2	MSI	5	10+
WPF	5	10+	AR	3	2	Elasticsearch	2	1	OLAP	4	10+
XAML	5	10+	Apex	3	2	Kafka	2	1	WCF	5	10+
XML	5	10+	Cordova/PG	3	2	MRTK	2	1	WIX	5	10+
Angular	4	5	Dapper	3	1	OpenCV	2	1	WebForms	5	10+
DirectX	4	10+	Electron	3	5	PyTorch	2	1	WinForms	5	10+
Drivers	4	10+	Ionic	3	2	ROS	2	1	Matlab	3	2
EDI	4	8	MagicLeap	3	1	RabbitMQ	2	1	GraphQL	2	2
EntityF	4	10+	Node.js	3	5	TensorFlow	2	1	Win32	5	10+