

I am a senior technical leader and software engineer with a diverse skillset. I have successfully built products from the beginning through customer launch and support, leading large teams to deliver secure, scalable solutions solving challenging technical needs. I love learning and delivering secure, scalable, and effective solutions.

Professional Technical Experience

Product Software Architect - IoT

Radio Systems Corporation

July 2023 – November 2023

Remote

- Serves as the software architect, responsible for envisioning, designing, implementing, maintaining, and improving new and existing software solutions for complex business challenges within IoT
- Serves as the subject matter expert for software and data solutions across all IoT teams and external stakeholders
- Works with other teams across disciplines to be able to solve complex software architectural challenges to deliver high-quality software solutions
- Works with a diverse set of backend systems, including AWS IoT Core, AWS Lambdas, DynamoDB, AWS RDS, and Linux servers to develop secure and reliable systems that scale
- Sets the standards for code hygiene, best practices, security, and commonality, ensuring teams are effective, productive, and efficient
- Develops and provides architectural diagrams, plans, and solutions utilizing several technology stacks
- Provides diverse consulting opinions on platforms, technologies, and solutions for all engineers in the enterprise

Chief Software Architect

Wagz

January 2017 – June 2023

Remote

- Served as the technical leader of software engineering and systems architecture; first fulltime engineer
- Designed, implemented, and deployed a microservices architecture on AWS written in Go and backed by MySQL in AWS RDS, RabbitMQ, and Redis utilizing REST and MQTT communication flows
- Implemented API gateways in NodeJS with TypeScript with user-facing Single Page Applications written in React and Svelte hosted on Netlify with Cloudflare DNS
- Utilized Docker, Ansible, Prometheus, Grafana, Terraform, and Jenkins to manage the system's health and scalability and led DevOps efforts
- Implemented and certified multiple devices with Amazon Alexa and Amazon Dash Replenishment Services
- Managed, led, and coordinated a cross-functional team of technology experts
- Oversaw the acquisition and merger of two separate companies and teams
- Oversaw the merger of Wagz with Sigmatron International, an international manufacturing firm, and ensured the proper merging and integration of IT infrastructure, processes, and systems

Software Engineer

Independent Consultant

January 2015 – February 2017

Remote

- Independent contractor and consultant for a variety of companies, including Texas Direct Autos, ERT/PHT, Data Recognition Corp, and Cognosante
- Senior-level technical contributor focused on architecting, planning, implementing, and delivering key systems using cutting edge technologies
- Focused on full-stack development utilizing NodeJS, React, Python, and Go
- Deployed applications on AWS and Digital Ocean utilizing Ansible, Docker, and Jenkins
- Mentored and trained junior and senior engineers in best practices and new technologies

Director of Architecture**Gemr****April 2014 – January 2015**

Remote

- Served as the first engineer and built a technology stack and team in an agile bootstrapped startup
- Designed, architected, and implemented a NodeJS based RESTful API utilizing Express and MongoDB with AngularJS front end and Python services
- Managed a team of cross-functional engineers, designers, and product managers to develop cutting-edge products and integrations
- Utilized third-party platforms to enhance core product, including LogEntries, ElasticSearch, Stripe, and Redis
- Implemented a DevOps platform utilizing Jenkins, Docker, Ansible, and Vagrant to ensure scalability, maintainability, and consistency across various cloud providers
- Utilized PhoneGap / Cordova to deliver a cross-platform proof-of-concept mobile application

Software Engineer Contractor**Salon Target****January 2014 – June 2014**

Remote

- Senior Full Stack Software Engineer consultant responsible for implementing a new technology stack and integrating with legacy systems
- Designed and implemented a NodeJS API with Express, Mongoose, MailGun, and Mocha
- Implemented a full continuous integration system utilizing Jenkins
- Trained entire engineering team on NodeJS, Python, MongoDB, API design, Agile Processes, and Continuous Integration on both AWS and Rackspace cloud infrastructures
- Mentored Junior Engineers to become fully capable contributing members of the team

Vice President of Engineering**Trunity****January 2010 – January 2014**

Remote

- Served as the technical leader and expert overseeing the acquisition, integration, migration, and growth of a diverse technical stack and cross-functional engineers
- Responsible for development of Java, Node, PHP, Python, and Scala server-side code and HTML5 / Javascript front-end for knowledge management platform
- Oversaw a complicated migration from unsupported technologies running on on-premises servers to a new stack utilizing a Jersey-based Java RESTful API running on Rackspace Open Cloud
- Responsible for MySQL and MongoDB administration, schema design, and development
- Created Business Intelligence platform for reporting and business decision making
- Developed several mobile prototypes and applications using PhoneGap and Ionic

Technical Project Manager**Endurance International Group****April 2008 – July 2009**

Remote

- Technical Project Manager and Developer for web-based engineering projects focusing on internal tools and customer-facing applications using Perl, PHP, and Javascript on a Linux/Apache/MySQL backend
- Managed teams ranging in size from 2 developers to 10 cross-functional stake-holders
- Focused on a hybrid agile project management methodology averaging 3 completed projects or sprints a month
- Responsible for requirements gathering, design, scheduling, task management, risk advisory, development, launch, and documentation of projects
- Simultaneously assisted with development of Business Intelligence and SQL report development

Software Developer Consultant**Network Dynamics****January 2008 – April 2008**

Remote

- Lead developer and engineer for short-notice ecommerce project
- Utilized PHP, MySQL, and Ubuntu to develop a large web-based finance and tax software application
- Primary developer and technical expert across the entire stack, ensuring security, scalability, and compliance with regulatory requirements

Information Management Officer Contractor Central Texas College May 2007 – December 2007

Remote

- Primary developer responsible for development of numerous web-based internal applications
- Utilized Eclipse and Netbeans to develop a Java Enterprise Edition web-based testing and scheduling application on a Tomcat and Glassfish web server
- Developed a web-based content management system using PHP, Javascript, and HTML/CSS
- Developed web-based testing software using C# and .NET technologies

Developer and Systems Administrator US Army Reserve February 2003 – April 2007

Remote

- Sole developer and technical lead for US Military unit based in Vicenza, Italy,
- Deployed to Afghanistan in which development and administration occurred in a high-stress and classified environment
- Focused on PHP development on a Linux/Apache/MySQL/PHP development stack
- Primary application developed within Afghanistan was a customized Content Management System for the Public Affairs Office

Strongest Technologies and Languages

- Languages: Go, Typescript, Javascript, Python, Java
- Frameworks: Chi, Express, React, Svelte
- Data: MySQL, Redis, MongoDB
- DevOps: Docker, Ansible, Terraform, Jenkins, Linux

Technical Education

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| • PhD in Business Administration and Applied Computer Science | 2015 |
| • Master of Science in Information Technology Management | 2008 |
| • Bachelor of Science in Computer Science | 2007 |
| • Associate of Science in Technical Management | 2005 |

I also possess 2 other Doctoral degrees and 3 Graduate degrees in Counseling and Psychology related fields.

Military

- Reserve Officer (Lieutenant Colonel) in the Army with three previous deployments and over 20 years of service
- Several Army and Joint commendations and awards for leadership and technical expertise
- Active Secret Security Clearance

Academia

Professor of Computer Science (Adjunct) Purdue University Global April 2008 – Present

Remote

- Developed curriculum and taught classes online and on campus
- Developed, planned, and integrated two courses from scratch teaching software development
- Primarily teaches courses in Cybersecurity, Software Development, Systems Administration, and Data