Rob Williford

Software Engineer and Cloud Native Generalist

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EXPERIENCE

Senior Software Engineer

Pillar Apps   📅 07/2025 - 12/2025   📍 Remote - Denver, CO

IoT PaaS

- Engineering team of one owning and developing the entire software development lifecycle of a cloud-native platform as a service
- Platform enabled by IoT integrations with 5G enabled sensors installed on hauling trucks in the USA and a data pipeline that provided telematics and manifest analytics in real time
- Technology stack consisting of Svelte/Sveltekit, Typescript, AWS Lambda, DynamoDB, S3, Firehose, Redshift, and Terraform
- Infrastructure hosted via both Vercel and AWS
- Development environment heavily augmented by context managed and enhanced LLM agentic tools across the entire development lifecycle (Claude Code, Gemini, CodeRabbit)
- Development paradigm was heavily spec driven to maximize effectiveness and velocity of agentic development, and involved continuous, extensive context engineering and optimization for rapid, iterative development

Senior Software Engineer

Freelance   📅 10/2022 - 06/2025   📍 Remote - Denver, CO

Various

- Freelance software development for local enterprise companies in Denver
- Contributed to the billing team focused on improving user experience
- Specialized in C# Xamarin and TypeScript Angular development
- Guided newer developers and conducted an informative session about C# and TypeScript, aiding a tech shift for the mobile user experience
- Facilitated a shift from C# Xamarin to Angular PWA with Ionic for mobile services
- RESTful .NET API, SqlServer, and Xamarin/Windows forms client development including enhancements, new features, and bug fixes
- Core re-writes of legacy ecommerce functionalities and data models
- Work sourced through Unison Systems and BW Bacon Group LLC's

Senior Software Engineer

Blackbaud   📅 11/2021 - 10/2022   📍 Remote - Denver, CO

Computer Software Company

- (Full-time) Full-time role utilizing .NET/Azure for comprehensive, cloud-based fullstack software engineering
- Contributed to the web-based edition of the Financial Edge software's accounting segment using Angular/RxJS for front-end and C#/Azure for back-end
- Managed all aspects of software implementations, improving features and fixing defects from UI to Database systems
- Participated as a member of an internal team refining interview techniques for evaluating prospective software engineers
- Collaborated engineering org wide both with primary team and cross-team efforts to deliver and refine solutions for both product and operations

SUMMARY

I'm a full-stack generalist with over 8 years of industry experience interested in fullstack or platform engineering opportunities. I like pushing the boundaries of what people think is possible and enjoy working on applications that have the potential to shift paradigms, and drive large impact. I value and like to help cultivate empathy and collaboration in a team oriented environment and seek to lead by example where possible.

SKILLS

Languages

TypeScript   Javascript   Ruby   Python   Go   C#   Java

Frameworks

Ruby on Rails   NodeJS   Buffalo   ReactJS   Flask   Spring   Svelte   Sveltekit   Angular   .NET   Xamarin

Infrastructure and Tooling

PostgreSQL   Redis   Heroku   Git   Jira   Apache Sling   MariaDB   CassandraDB   Linux   Kubernetes   CloudFoundry   nginx   ElasticSearch   Vercel   AWS ECS   AWS Batch   Cloud Functions   Docker   MongoDB   AWS S3   AWS Serverless   Terraform   Jenkins   OAuth   Auth0   ClaudeCode   Gemini   Particle Cloud   CodeRabbit   AWS Cognito

EXPERIENCE

Senior Software Engineer

Freelance 📅 09/2020 - 10/2021 📍 Remote - Raleigh, NC

Various

- Freelance full-stack software development consulting using React, Java/Spring, NodeJS, and Python3/Flask on various client projects
- Developed full-stack React and Java/Spring software for an enterprise freight platform
- Contributed to a full-stack JavaScript platform for entertainment events during COVID lockdowns
- Used Python3 and Flask for a healthcare application managing COVID vaccine inventory and appointment scheduling
- Built a backend service on AWS using JS, Lambda, Terraform, and ECS for a regional energy company to automate electricity permits for new residential and commercial construciton projects
- Provided proven expertise in analyzing client needs and delivering customized software solutions in a diverse array of operational/domain contexts
- Work sourced through Vaco LLC and Eliassen Group LLC

Software Engineer

PrecisionHawk 📅 11/2019 - 09/2020 📍 Hybrid - Raleigh, NC

Drone/Software Solutions for Energy and Agriculture

- (Full-time) Served as the sole full-stack engineer, using React and Java8/OpenJDK on an AWS infrastructure
- Developed an application for energy companies to monitor their infrastructure via drone imaging data
- Enhanced user interfaces and optimized data services for grid node street view using React/JS and Java
- Increased data pipeline processing via parallelization for lidar and infrared imaging data
- Designed and implemented an authorization migration strategy from Auth0 to AWS Cognito using Python3
- Adapted quickly to emerging technologies and tools to meet project needs

Software Engineer

IBM 📅 03/2019 - 10/2019 📍 RTP

Cloud, IT, and IoT solutions

- (Full-time) Developed automated solutions for financial data hosted on IBMCloud
- Built a microservice for financial services data instance migration using Python3
- Assisted in architecting, designing, and creating a cloud-native PaaS with a distributed Go back-end, ReactJS front-ends, hosted on IBMCloud
- Worked on building a new cloud-native PaaS with a distributed systems back-end implemented in Go, ReactJS front-ends, and using Kubernetes hosted on IBMCloud.
- Improved data-streaming capabilities for financial metadata and file aggregation using Go and imlemented Terraform infrastructure as code for configuration of Kubernetes clusters and associated container image repository on IBMCloud
- Developed effective strategies for optimizing cloud resources and reducing operational costs
- Fasciliated cross-team technical collaborative efforts among teams globally distributed
- Member of team of five that received a CIO technical achievement award

SKILLS

Cloud

AWS   IBM Cloud   Pivotal   Azure

PASSIONS

🌿 Environment

⚛ Physics/Mathematics

🔗 Open Source

✈ Traveling

EXPERIENCE

Software Engineer

Cisco 📅 06/2017 - 03/2019 📍 Hybrid - RTP

Digital Security and Networking Solutions

- (Contract) Full-stack web development for a software image security platform
- Built and maintained API integrations with internal and external government agencies
- Enhanced user interface and page navigation mechanisms utilizing JS and Ruby
- Expanded the functionality of back-end services and fixed bugs using Ruby and contributed to security libraries written Java, Python, and Go
- Developed proficiency in maintaining and enhancing security automation for security compliance standards
- Worked in a cross-displinary team that also involved interfacing with offshore teams

EDUCATION

B.S. Environmental Science/Mathematics

North Carolina State University

📅 08/2011 - 05/2016 📍 Raleigh, NC