

# Rob Williford

## Software Engineer and Cloud Native Generalist

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### EXPERIENCE

#### Senior Software Engineer

**Freelance**    [10/2022 - Present](#)    [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

#### 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 construction 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

### 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. I 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 am an advocate for work-life balance in company cultures.

### SKILLS

#### Languages

Java    Javascript    Ruby    Python  
Go    C#    TypeScript

#### Frameworks

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

#### Infrastructure

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

#### Cloud

AWS    IBM Cloud    Pivotal    Azure

## EXPERIENCE

### 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 implemented 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
- Facilitated cross-team technical collaborative efforts among teams globally distributed
- Member of team of five that received a CIO technical achievement award

### 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-disciplinary team that also involved interfacing with offshore teams

## PASSIONS



Environment



Physics/Mathematics



Open Source



Traveling

## EDUCATION

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**B.S. Environmental Science/Mathematics**

**North Carolina State University**

📅 08/2011 - 05/2016    📍 Raleigh, NC