

# Joey McKenzie

SENIOR SOFTWARE ENGINEER · DEVELOPER ADVOCATE

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## Summary

Seasoned professional software developer with diverse experience building enterprise-grade distributed software systems with technologies in **.NET**, **Java**, and **TypeScript** across industries including healthcare, insurance, manufacturing, and fintech. I specialize in building fast, efficient cloud-based web services and APIs with **AWS** and **Azure** alongside modern web applications with **Angular**, **React**, and **Vue**. I have a passion for software architecture and design, software leadership and mentorship, and delivering high-quality software products at a nationwide scale.

I am an avid contributor to open source, primarily in the **Rust** and **TypeScript** ecosystems, alongside minor contributions in **Go** with community projects hosted across **GitHub**, **Vercel** and **Netlify**. I enjoy dispersing knowledge and experience with other like-minded developers sharing a similar passion for software development and design. I write and produce technical content on my blog, Twitch, and YouTube exploring emerging technologies with a focus on developer advocacy.

## Experience

### National Funding

SENIOR SOFTWARE ENGINEER

Remote

Jan. 2022 - Present

- Developing **.NET** microservices, **React** applications with **Next.js**, and **AWS** infrastructure supporting financial operations
- Migrating legacy services to **serverless** architectures with **AWS Lambda**, **EventBridge**, **S3**, and **SQS**
- Integrating external financial partner **APIs** into **backend** systems, increasing customer lending conversion by up to 40%
- Managing **CI/CD pipelines** and automated processes with **AWS**, **Terraform**, **Jenkins**, and containerized workflows with **Docker**
- Upgrading internal **.NET** infrastructure improving performance and speed by 25% while reducing **AWS** costs
- Troubleshooting applications errors using log aggregation services with **OpenSearch** and **Kibana**
- Maintaining company-wide build artifacts with **NuGet** and source code with **GitHub**
- Leading company-wide modernization efforts to develop publicly available **APIs** for consumers in the fintech space

### MediKeeper

SOFTWARE ENGINEER

Remote

Dec. 2020 - Jan. 2022

- Developed **.NET** and **JavaScript** applications with **Vue** deployed to **Azure** infrastructure
- Worked with product teams and UX designers to compose **Sass** and **Material Design**-based UIs with **Figma**
- Migrated existing **CI/CD pipelines** and automated processes to **Azure DevOps** to improve existing build times
- Administered **SQL Server** and **Oracle** databases while improving business critical query times by up to 35%
- Improved existing system architecture by migrating legacy **.NET Framework** applications to modern **.NET**
- Maintained integration suites with **JavaScript** and **Cypress** to automate platform testing, increasing QA velocity by 20%

### Sierra Pacific Industries

SOFTWARE ENGINEER

Redding, CA

Jan. 2020 - Dec. 2020

- Developed internal applications and dashboards using modern **RPG ILE** on the **IBM iSeries AS/400** and **.NET** for desktop applications
- Migrated brownfield and legacy applications to modern **RPG** architectures increasing application response times
- Improved business critical **PL/SQL** queries for **embedded systems** by up to 40% in several applications
- Maintained company-wide build artifacts with **RDi**, **Azure DevOps**, and **VSTS**
- Managed database schemas with **SQL Server** using **SSMS** to support inventory management operations

### VSP Global

ASSOCIATE SOFTWARE ENGINEER

Sacramento, CA

Jun. 2018 - Jan. 2020

- Developed **Java** APIs and **Angular** applications with **TypeScript** deployed to **AWS** hosting infrastructure
- Migrated legacy **JEE** and **Spring** applications to **Spring Boot** while increasing response times by up to 25%
- Lead development of **Angular** applications utilizing **Material Design**, **Sass**, **RxJS**, **NgRx**, and modern web standards
- Created and maintained **CI/CD pipelines** with **Jenkins**, **Chef**, and containerized workflows with **Docker**
- Administrated systems and servers while migrating non-production workloads off legacy **Windows** servers to **Linux** servers
- Maintained company-wide build artifacts with **Artifactory** and source code with **BitBucket**
- Assisted in troubleshooting company-wide service outages and application performance issues with **Splunk** and **Wily**

### Engility Corporation

OPERATIONS RESEARCH ANALYST

San Diego, CA

Sept. 2016 - May 2018

- Wrote and maintained **VBA** and **R** codebases to perform data analysis and spreadsheet specific functionality
- Provided contractor support for U.S. Department of Defense naval programs for **systems engineering** and **data analysis**
- Performed **regression analysis** and **statistical programming** using **R** to refine estimated financial expenditure models
- Managed automated **Excel** spreadsheets and codebases in **RStudio** for data analysis and exploration
- Maintained **databases** of financial data and provided ad hoc **SQL** reporting for various projects

## Education

### San Diego State University

B.S. IN ASTROPHYSICS, MINOR IN MATHEMATICS

San Diego, CA

May 2016

- Coursework included training in: scientific computation, procedural and object-oriented programming, advanced mathematics, physics, astronomy, data structures, and numerical algorithms with thesis on [computational photometry for stellar astrophysics](#)