

# Joey McKenzie

SENIOR SOFTWARE ENGINEER

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## Summary

As a seasoned professional Software Engineer, I have a proven track record of building complex and scalable software systems for various industries, including healthcare, insurance, manufacturing, and fintech. My expertise includes developing cloud-based web services and APIs with AWS and Azure, as well as modern web applications with Angular, React, and Vue. My passion lies in software architecture and design, and I have extensive experience leading and mentoring software teams to deliver high-quality products at a nationwide scale.

As an active contributor to open source, I have made various contributions to the .NET, Rust, and TypeScript ecosystems and have hosted community projects on GitHub, Vercel, and Netlify. Additionally, I am committed to sharing my knowledge and experience with other developers by creating technical content on my blog, Twitch, and YouTube channels with a focus on developer advocacy. I am confident that my skills and experience make me an excellent fit for any team looking to build high-quality, scalable software systems.

## Experience

### National Funding

Remote

SENIOR SOFTWARE ENGINEER

Jan. 2022 - Present

- Designing and developing high-performance .NET microservices, React applications with Next.js, and AWS infrastructure to support financial operations, resulting in improved efficiency and scalability
- Spearheaded the successful migration of multiple legacy service domains to serverless architectures with AWS, leading to increased overall system uptime and reliability.
- Leading the development of robust, event-driven .NET services by integrating with third-party partner APIs such as Salesforce and Plaid, resulting in streamlined processes and improved user experiences
- Managing end-to-end CI/CD pipelines and automated processes with AWS, Terraform, Jenkins, and containerized workflows with Docker, ensuring seamless deployments and improved release cycles
- Modernizing internal legacy .NET infrastructure to improve performance and speed by 25%, resulting in increased efficiency and productivity
- Proactively identifying and resolved system outages using log aggregation services such as OpenSearch and Kibana, minimizing downtime and improving system reliability
- Maintaining company-wide build artifacts and frameworks with NuGet and source code with GitHub, ensuring efficient collaboration and version control among cross-functional teams

### MediKeeper

Remote

SOFTWARE ENGINEER

Dec. 2020 - Jan. 2022

- Led the development of scalable SaaS applications using .NET and JavaScript, utilizing Vue.js and Azure infrastructure
- Collaborated with cross-functional teams and UX designers to create responsive, user-friendly interfaces based on Sass and Material Design with Figma
- Successfully migrated existing CI/CD pipelines and automated processes to Azure DevOps, resulting in significantly improved build times
- Administered SQL Server and Oracle databases, enhancing business-critical query times by up to 35%
- Revamped legacy .NET Framework applications to modern .NET, improving the overall system architecture
- Automated platform testing using JavaScript and Cypress integration suites, increasing QA velocity by 20%

### Sierra Pacific Industries

Redding, CA

SOFTWARE ENGINEER

Jan. 2020 - Dec. 2020

- Designed and developed internal applications and dashboards for inventory management using modern RPG ILE on the IBM iSeries AS/400 platform and .NET for desktop applications
- Successfully migrated multiple brownfield and legacy applications to modern RPG architectures, resulting in increased application response times
- Optimized business-critical PL/SQL queries for embedded systems, achieving performance improvements of up to 40% across several applications
- Managed company-wide build artifacts using a combination of RDi, Azure DevOps, and VSTS, streamlining the build and deployment process for all applications
- Administered SQL Server databases using SSMS to support inventory management operations, including managing database schemas and performance tuning

### VSP Global

Sacramento, CA

ASSOCIATE SOFTWARE ENGINEER

Jun. 2018 - Jan. 2020

- Spearheaded the development of Java-based APIs and Angular applications with TypeScript, which were hosted on AWS infrastructure
- Revamped legacy JEE and Spring applications to modern Spring Boot, thereby achieving up to 25% improvement in response times
- Led a team of developers to create Angular applications using Material Design, Sass, RxJS, NgRx, and other modern web standards
- Established and maintained streamlined CI/CD pipelines, using tools such as Jenkins, Chef, and Docker
- Managed company-wide build artifacts with Artifactory, while maintaining source code with BitBucket
- Conducted troubleshooting and Root Cause Analysis (RCA) for service outages and performance issues using Splunk and Wily tools

### Engility Corporation

San Diego, CA

OPERATIONS RESEARCH ANALYST

Sept. 2016 - May 2018

- Developed and maintained VBA and R codebases for data analysis and spreadsheet automation tasks
- Provided contractor support for U.S. Department of Defense programs, specializing in cost engineering and procurement data analysis
- Leveraged R to perform statistical programming and regression analysis, refining financial expenditure models
- Managed and automated Excel spreadsheets and codebases using RStudio, streamlining data analysis and exploration
- Maintained and managed databases of financial data, providing ad hoc SQL reporting for various projects and stakeholders

## Education

### San Diego State University

San Diego, CA

BACHELOR OF SCIENCE IN ASTROPHYSICS | MINOR IN MATHEMATICS

May 2016

- Coursework included training in scientific computation, procedural and object-oriented programming, advanced mathematics, physics, astronomy, data structures, and numerical algorithms