

# JOEY MCKENZIE

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## SUMMARY

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Experienced Senior Software Engineer with a strong track record in building high-performing, scalable distributed software systems. Skilled in developing cloud-based web services and APIs using .NET, Java, Go, and TypeScript with technical proficiency integrating with Azure and AWS infrastructure. Professional expertise in crafting modern frontend web applications with Angular, React, and Vue. Passionate about software architecture, leading teams, and ensuring exceptional product delivery. Active contributor to open source communities in Rust, Go, and TypeScript while committed to sharing knowledge through online platforms for developer advocacy.

## SKILLS

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<b>Languages</b>	C#, TypeScript/JavaScript, Rust, Go, Java, SQL, Python
<b>Scripting &amp; Markup</b>	Bash, Powershell, Markdown, HTML5, CSS3, Sass, Tailwind
<b>Frameworks</b>	.NET, ASP.NET, React, Vue, Angular, Svelte, Astro, Node.js Spring Boot
<b>Development Tools</b>	JetBrains Suite, Visual Studio, VS Code, Neovim, WSL2, zsh, ngrok, Postman
<b>Cloud &amp; Edge</b>	AWS, Azure, Vercel, Netlify, Cloudflare, Fly, PlanetScale
<b>DevOps &amp; Monitoring</b>	Docker, GitHub, Jenkins, Terraform, Chef, Kibana, OpenSearch, Splunk
<b>Databases &amp; OS</b>	SQL Server, Postgres, MySQL, Oracle, Redis, Windows, Linux, macOS
<b>Productivity Tools</b>	Jira, Trello, Slack, Salesforce, Confluence, HackMD, Scrum, Agile, Kanban

## EXPERIENCE

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**Senior Software Engineer** Jan. 2022 - Present  
National Funding *Remote*

- Developing high-performance .NET microservices with C# for financial lending, React applications with Next.js, and AWS infrastructure enhancing efficiency and scalability
- Designing greenfield applications and services with serverless architectures with AWS Lambda, S3, ECS, SQS, ElastiCache, and EventBridge improving system uptime and reliability
- Leading development of robust, event-driven .NET services integrating with Salesforce, Plaid, and various third-party partner APIs, resulting in streamlined loan funding processes and enhanced user experiences
- Managing end-to-end CI/CD pipelines and automated processes with GitHub, AWS CodePipelines, Azure DevOps, Terraform, Jenkins, and Docker, ensuring seamless deployments and improved release cycles
- Spearheading migration efforts of legacy .NET Framework monoliths and .NET Core 2.1 web services to modern .NET 7 runtimes reducing AWS ECS memory footprint and server costs by up to 10%

**Software Engineer** Dec. 2020 - Jan. 2022  
MediKeeper *Remote*

- Developed and designed scalable health and wellness SaaS applications using .NET with C#, JavaScript and Vue.js, and Azure infrastructure increasing product portal efficiency and system response times
- Implemented robust Vue.js frontend web applications leveraging extensive experience with various browser APIs and event handling including storage, navigation, and intersection APIs resulting in enhanced user experiences and improved performance
- Managed and maintained CI/CD pipelines with Azure DevOps, improving system build times and hardening code quality processes increasing codebase maintainability
- Administered Oracle and SQL Server databases and schemas and optimized business critical PL/SQL and T-SQL queries with Entity Framework Core and Dapper reducing latency between databases and app servers
- Successfully led legacy migration efforts for .NET web services from legacy .NET Framework to modern .NET runtimes in .NET Core 3.1 and .NET 5 improving overall system performance and response times

**Software Engineer**  
Sierra Pacific Industries

Jan. 2020 - Dec. 2020  
*Redding, CA*

- Designed and developed internal dashboards and desktop applications for inventory management using ILE RPG and .NET with C# and VB, increasing shipping and transport efficiency and production
- Successfully migrated legacy applications to modern RPG IV and VB.NET architectures, improving application response times and increasing code maintainability
- Optimized PL/SQL queries for embedded IBM systems, achieving significant performance improvements for business critical production systems
- Managing and maintaining build artifacts and automated processes with Azure, improving release cycle velocity by migrating to Azure DevOps from VSTS

**Associate Software Engineer**  
VSP Global

June 2018 - Jan. 2020  
*Sacramento, CA*

- Developed and designed vision insurance Java applications and microservices with JEE and Spring Boot alongside Angular frontends with TypeScript for nationwide private and retail optometry offices
- Led migration and refactoring efforts of legacy SOAP-based Java applications to modern Spring Boot, achieving significant response time improvements and reducing memory footprint on AWS EC2 instances
- Successfully led frontend developer team creating Angular applications using Material Design, Sass, RxJS, NgRx, Nx, and other modern web standards while establishing and maintaining streamlined deployment processes to AWS Cloudfront CDN greatly reducing client bundle download times
- Managed DevOps and CI/CD processes with Jenkins, Gradle, and Chef improving existing systems while spearheading automation testing efforts with Karma, Cucumber, and Mountebank reducing defects and bugs

**Operations Research Analyst**  
Engility/SAIC

Sept. 2016 - May 2018  
*San Diego, CA*

- Developed and maintained VBA and R codebases for data analysis, spreadsheet automation, and statistical programming improving cost models
- Managed and automated Excel spreadsheets and codebases using RStudio, while maintaining and managing databases of financial data for ad hoc SQL reporting
- Provided specialized contractor support for U.S. Department of Defense programs, focusing on cost engineering and procurement data analysis while reducing budget expenditures for naval engineering programs

## EDUCATION

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**Bachelor of Science in Astrophysics**, San Diego State University  
Minor in Mathematics

May 2016

## PROJECTS

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**joeymckenzie.tech** | Portfolio and markdown blog built with TypeScript, Astro, Svelte, Tailwind, Rust, and Docker deployed to Cloudflare Pages and Fly using Neon as a Postgres serverless database. ([Link](#))

**SvelteKit Template** | Open source preconfigured SvelteKit project template bootstrapping popular build tools and dependencies in TypeScript, Tailwind, ESLint, Prettier, Commitlint, Jest, and Playwright. ([GitHub](#))

**RealWorld Go** | GitHub [Realworld](#) implementation built using Go, Go Kit, Chi, SQLx, Taskfile, and Docker deployed to Fly using PlanetScale as a MySQL serverless database. ([GitHub](#))

**RealWorld Rust** | GitHub [Realworld](#) fullstack implementation built using Rust, cargo-make, Axum, SQLx, Yew, Cypress, Postgres, Docker, and Docker Compose. ([GitHub](#))

**Open Redding** | An open data dashboard analyzing budgets and salaries of public sector employees using C# and .NET, Blazor, Bootstrap, Docker and Azure. Analyzes over 12000 public salaries across multiple fiscal years extracted from [Transparent California](#), providing publicly available insights and data analysis. ([GitHub](#))