

Joey McKenzie

ENTERPRISE SOFTWARE ENGINEER | OPEN SOURCE DEVELOPER

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Experience

MediKeeper

Redding, CA

SOFTWARE ENGINEER

December 2020 - Present

- Developing a SaaS health and wellness platform used by enterprise clients nationwide
- Writing, debugging, and testing .NET and Vue applications integrated into a custom CMS software
- Managing CI/CD pipelines and automated processes with Azure
- Administering SQL Server and Oracle databases in various environments
- Working with product teams and system analysts to define technical requirements and user stories
- Leading scrum ceremonies including daily stand ups, grooming sessions, and retrospectives
- Practicing agile software development based on two week sprint intervals
- Coordinating with legacy software teams to migrate sunset applications to modern .NET and Vue
- Troubleshooting applications and assisting with root cause analysis for production issues
- Participating in a rotating on-call support team with other software engineers
- Writing documentation for technical systems and development workflows
- Mentoring and training developers on engineering best practices and processes across the technology stack
- Interviewing candidates for software engineering roles available within the company

Sierra Pacific Industries

Redding, CA

APPLICATION DEVELOPER

January 2020 - December 2020

- Developed internal applications using modern RPG ILE for use on the IBM iSeries AS/400 and VB.NET for desktop applications
- Optimized embedded SQL queries and commands for system performance gains and refactoring insecure and inefficient SQL
- Used Rational Application Developer for i (RDi) for RPG development and Visual Studio 2019 for .NET
- Architected new program features and existing bug fixes for various company personnel
- Maintained legacy codebases concerning order and manufacturing processing
- Refactored existing code to adhere to modern RPG and VB.NET standards
- Performed system administration tasks on the IBM iSeries AS/400 to maintain environmental integrity and system up-time
- Coordinated with business analyst to define technical user requirements and acceptance criteria for new feature requests
- Participated in troubleshooting user issues in a timely fashion and orchestrating immediate hotfix solutions
- Administered database development operations with DB2 and SQL Server interfacing with IBM and .NET applications
- Designed new tables to conform with existing normalized table schema to assist with data warehousing and OLTP-related tasks
- Ad hoc querying and report generation with SQL Server Management Studio, Visual Studio, and RDi

VSP Global

Sacramento, CA

ASSOCIATE SOFTWARE ENGINEER

June 2018 - January 2020

- Developed Java-based API and SOAP software applications consumed by optometry offices and retailers nationwide
- Integrated codebases with Spring and Spring Boot backed by SQL Server and DB2 databases
- Lead development of a mission critical enterprise web application rewrite using Angular with TypeScript
- Maintained a multitude of existing legacy and modern application codebases comprising of several millions of lines of code in total
- Updated several mission critical legacy Java EE applications for optometry practices used nation wide with new features
- Deployed applications to Windows servers, Linux servers, and AWS using automated CI/CD pipelines with Jenkins
- Provisioned and managed a fleet of Windows and Linux servers using RDCM, Chef, and VMware
- Participated in a rotating 24/7 on call schedule to provide production application support
- Coordinated with multiple domain teams to develop and design contracts between applications, systems, and software services
- Designed new features for legacy monoliths, APIs, and frontends as well as fixed existing bugs
- Practiced agile software development with scrum in two week sprint-based development work
- Assisted with schema and table maintenance of IBM DB2 and SQL Server instances and query optimization in application code

Engility Corporation

San Diego, CA

OPERATIONS RESEARCH ANALYST

Sept. 2016 - May 2018

- Provided contractor support for SPAWAR 1.0 Finance Division in the form of data analysis and systems engineering
- Wrote and maintained VBA and R codebases to perform data analysis and spreadsheet specific functionality
- Performed regression analysis and statistical programming using R with Navy-based datasets
- Extensively used Excel and RStudio for data reporting and high level graphical analysis and exploration
- Maintained an Access database of financial data and provided ad hoc SQL reports for various projects
- Coordinated ETL efforts and data normalization between engineering and financial teams

Education

San Diego State University

San Diego, CA

B.S. ASTROPHYSICS, MATHEMATICS MINOR

May 2016

- Coursework included training in scientific computation, procedural and object-oriented programming, advanced mathematics and physics, data structures, and numerical algorithms with thesis on computational photometry for stellar astrophysics
- **Photometry of Eclipsing Binary V11 in NGC 7789** - undergraduate thesis on computational photometry for eclipsing binary stars in a nearby globular cluster with numerical analysis using Fortran

Open Source Projects

If viewing electronically, click the project title to navigate to the repository home page

ApiEndpoints

[Hosted on: GitHub](#)

CONTRIBUTOR

Development status: Ongoing

- An ASP.NET Core library giving an opinionated approach to vertical slice architecture to existing web and API projects
- Library featured on episode #1695 of .NET Rocks!, a .NET-centred podcast for developers and software engineers
- Encourages deconstruction of controllers by adhering to strict feature-based solution structure at the API level

Open Redding

[Hosted on: GitHub, Azure, Netlify](#)

PRIMARY AUTHOR

Development status: Ongoing

- Open Redding is a city-wide public data portal providing users paginated and downloadable datasets of various city assets
- Implemented using the latest versions of .NET Core and C# (3.1 and 8.0, respectively)
- CI/CD is configured using Azure Pipelines, Azure Container Services, and Netlify

Blazor Conduit

[Hosted on: GitHub, Netlify](#)

PRIMARY AUTHOR

Development status: Ongoing

- A .NET Core Blazor implementation of the RealWorld GitHub challenge featuring current design patterns and best practices
- Featured on the Awesome Blazor community repository recognized by the .NET Foundation and Microsoft
- CI/CD is configured using Azure Pipelines and Netlify

Awesome Blazor

[Hosted on: GitHub](#)

CONTRIBUTOR

Development status: Ongoing

- A .NET community organized repository for Blazor resources
- Recognized by the .NET Foundation and Microsoft for Blazor developers
- Features libraries, tools, and sample projects for the Blazor framework, both client- and server-side

joeymckenzie.io

[Hosted on: GitHub, Netlify](#)

PRIMARY AUTHOR

Development status: Ongoing

- Personal blog featuring publications centered on .NET, C#, and modern web development
- Features articles targeted at .NET and web developers about current software design within the ecosystem
- Publications featured on the the Awesome Blazor and ApiEndpoints community repository

Software Skill Set

Programming & Scripting

COMPETENCY IN OBJECT-ORIENTED, PROCEDURAL, AND FUNCTIONAL DESIGN:

- **Proficient:** C#, Java, JavaScript/TypeScript, Visual Basic, HTML, CSS, PL/SQL, T-SQL, RPG ILE
- **Knowledgeable:** Python, Rust, Bash, Powershell

Libraries, Frameworks & Databases

KNOWLEDGE & OPEN SOURCE CONTRIBUTIONS OF:

- **Backend:** .NET Core, .NET Framework, Spring, Spring Boot, NestJS, JEE
- **Frontend:** jQuery, AngularJS, Angular 2+, Blazor, React, Vue
- **Styling:** Bootstrap, Tailwind, Material Design, Flex Layout
- **Databases:** SQL Server, Oracle, IBM DB2

Tools and Design

DevOps & CI/CD

ENTERPRISE CENTERED IT SOLUTIONS IN:

- **Application Monitoring:** Splunk, Application Insights, Wily, Google Analytics, application logging
- **CI/CD:** Jenkins, GitHub Actions, Azure
- **Containerization:** Docker, Docker Compose, DockerHub

Web Technology & Design Patterns

ARCHITECTURAL PROFICIENCY IN AND REGULAR USE OF:

- **Web Tools:** Postman, Browser Dev Tools, Redux DevTools, Vue DevTools, Angular DevTools
- **Servers and Networks:** Windows and Linux Server, Tomcat, IIS
- **Design and Specs:** DDD, TDD, BDD, REST, HATEOAS, OAuth 2.0