Daniel Barry

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Summary

Software Engineer with 4+ years of experience specializing in full-stack development, IAM security, and cloud-native architecture. Proven track record of scaling microservices at iCIMS, including engineering API endpoints for 500K+ job applications and optimizing OAuth 2.0 workflows. Expert in Java, TypeScript, and AWS, with a focus on improving system reliability and CI/CD efficiency.

Technical Skills

- **Programming Languages**: Java, TypeScript, Python, C#
- **Cloud/Infrastructure**: AWS (EC2, S3, Lambda, RDS), Docker, Kubernetes, Jenkins
- **Architecture**: Microservices, RESTful APIs, OAuth2.0 & OIDC
- **Frameworks/Web**: React, ASP.NET, React Native
- **Data**: PostgreSQL, MongoDB, Redis
- **Secondary Languages**: Go, Rust, Haskell, Bash, PowerShell
- **Paradigms**: Agile/Scrum, Test-Driven Development, Functional Programming

Work Experience

iCIMS

Software Engineer - IAM   **May 2024 - Jan 2026**
- Enhanced security by implementing OAuth 2.0 service-to-service authentication across multiple Docker-based microservices using Auth0.
- Streamlined integration workflow by building React single-page application that coordinates customer and third-party vendor connections, improving integration setup speed and reliability.
- Reduced monthly token exchanges by 20% by architecting and implementing rate limiting for third-party service-to-service authentication.

Software Engineer - Apply Framework   **Oct 2022 - May 2024**
- Launched Apply Framework, enabling one-click application syncing across LinkedIn, Indeed, and ZipRecruiter, which reduced manual entry time for recruiters.
- Managed and optimized Postgres data storage by designing schemas, writing complex queries, and enforcing data integrity, which improved query performance and reduced errors.
- Created and maintained full-stack recruitment tools using Java with Spring for the back end and React for the front end, delivering scalable features that lowered page-load times for users.
- Deployed and managed applications on AWS and automated build, test, and deployment pipelines with Jenkins, achieving faster release cycles and consistent environment setup.
- Collaborated with product, design, and QA teams to add new features, troubleshoot bugs, and boost system performance, resulting in higher user satisfaction and fewer support tickets.

Assoc. Software Engineer - Apply Framework   **Apr 2021 - Oct 2022**
- Engineered REST API endpoint in Spring Framework microservice, handling 500K job applications from major external platforms.
- Reduced time to deploy by 50% by migrating legacy microservice to company standard CI/CD pipeline.
- Led initiative to develop subsystem tests for microservices, automating testing of connections to downstream dependencies, improving system reliability.
- Reduced page reloads by 5% by implementing automatic application flow status updates in React SPA.

MBMS, Inc.

Software Development Intern   **2019 - 2020**
- Wrote unit tests with Jest and Enzyme for in-house React library, allowing developers to change React components without introducing bugs.
- Automated e-mail notifications containing code build and test statuses with PowerShell scripts, removing need for developers to manually notify QA team about new CI builds.
- Created C# command line interface to migrate Microsoft SQL Server data, assisting teams in maintaining database integrity.
- Debugged UI tests in C# for ASP.NET web application, lowering time spent testing new releases by reducing false positives.

Education

Stevens Institute of Technology

B.S., Computer Science