

Joshua Burbidge

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WORK EXPERIENCE

Senior Software Developer, Quality Consulting Inc.

July 2024 - current

- Led a team of one other developer in a project to automate a data collection and entry process using React, Node.js, and SQL, allowing the client to scale customer onboarding from hundreds to thousands annually for a new product.
- Worked with client management to define project requirements and create an implementation strategy, ensuring that the project will meet business needs and allowing development to proceed efficiently.
- Conducted many code reviews in all of the team's codebases and provided in-depth technical guidance during pair programming, helping to establish technical standards and develop team members' abilities.

Software Developer, Quality Consulting Inc.

June 2022 - July 2024

- Designed and implemented a subscription management system consisting of Node.js microservices and a React frontend, integrating with many existing systems, and allowing the client to increase revenue from their software subscription product line.
- Spearheaded the implementation of AWS infrastructure solutions, including Elasticache and RDS using Terraform, gaining expertise that established me as the primary technical point of contact within the team, improving project efficiency and knowledge sharing.
- Independently researched and implemented database management solutions for our Postgres database, including migration management, AWS IAM authentication, and local database setup, increasing team productivity and system reliability.

Software Development Intern, University of Iowa IT Services

August 2021 - May 2022

- Created a system that enabled automatically executed database queries in order to track business metrics, using Java, Play framework, and Oracle RDBMS, allowing non-technical staff to collect these metrics without the help of developers.

EDUCATION

B.S. Computer Science

August 2018 - May 2022

University of Iowa, Iowa City, IA

PROJECTS ([joshua-burbidge.github.io](https://github.com/joshua-burbidge))

Forum web app: ([client](#)/[server](#))

- A forum website in which users can create, edit, and read posts, consisting of a Next.js React frontend and Express.js backend server with MySQL database.
- Deploys to AWS ECS via continuous deployment and infrastructure-as-code.

graph_rs: Rust application for graphing polynomial functions ([github](#))

- Draws graphs of polynomial functions using 2D vector graphics, by converting quadratic equations to bezier curves, and using linear interpolation for higher-degree functions.
- Runs natively and compiles to web assembly to run in browser from a Docker Container

SKILLS

Programming Languages/Frameworks: Javascript, Node.js, Typescript, React, Java

Tools and Technologies: AWS, Drone CI, PostgreSQL, Docker, Terraform