Zachary J. Hamm

Staff Software Engineer

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About Me

Hey! I am a staff software engineer focused primarily in web application, ETL data, and testing development. I believe a steadfast and ongoing commitment to quality is paramount in building consumer trust. In another world, I would be a musician playing at loud volumes in small venues.

Skills

Programming Languages: TypeScript, Node.js, Ruby, Python, T-SQL

Frontend: SvelteKit, React, Tailwind CSS, A11y

DevOps: GitHub Actions, Docker, Jenkins

Testing: Cypress, WebDriverIO, Playwright, Appium, Vitest, RSpec, Cucumber

Professional Experience

Staff Software Engineer   Apr 2024 – Feb 2026
Polly ⬈   San Francisco, CA

Led innovation as a key stakeholder on the Platform team, designing product architecture, responsive component library toolkits, and developer experience enhancements for the mortgage processing application.

- Architected the component test framework for the internal components library which included 1,500 tests that ensured the stability of our UI components used in all new applications
- Led directives to standardize the end-to-end and test framework, including data isolation techniques, test parallelization, code cleanup, and effective reporting, which shortened the release regression testing runtime from 8 to 3 hours per cycle
- Configured code coverage metrics on unit & component tests on pull requests, bringing the total coverage percentage from 60% to 85% in three months
- Wrote architectural documentation for an ETL data ingestion program acting as a cross-department consultant for the Investor team
- Executed a comprehensive test strategy for the responsive version of Polly's application, involving framework design, team management, and capacity planning
- Created useful programs including an open-source load balancer for Cypress, code health reporting, and encrypted file comparison tools
- Hosted office hours to mentor frontend developers and QA Engineers on component & end-to-end test curation, code reviews, and TypeScript practice

Software Engineer   Jan 2021 – Apr 2024
Validic ⬈   Durham, NC

Responsible for all automation capabilities across patient and clinician healthcare-monitoring applications, both mobile and web; essentially ran the Quality department for a long while.

- Directed overall quality procedures, standards, and objectives for the frontend side of the Engineering department
- Architected a WebDriverIO mobile automation framework against the HealthBridge application for both Android and iOS devices, including UI, accessibility, system integration, and mocked Bluetooth device tests
- Reduced compounding test failures while speeding up nightly regression runs from 12 to 6 hours through a rebuild of the automation framework used for the Impact remote patient monitoring web application through isolated data creation techniques and reusable page-object handlers
- Configured many DevOps initiatives including real-time test reporting, scheduled regression workflows, and deployment-based smoke testing on new features
- Implemented the '3 Amigos' process to align feedback of designers and developers with the requirements set by product owners during the 6-week Shape-Up cycles

Lead Application Developer   Jan 2019 – Dec 2020
Nationwide Insurance Co. ⬈   Columbus, OH

Built dataset validation frameworks used to audit large-scale ETL workflows within the Investments and Agency departments, while also managing quality analysts and SDETs across those teams.

Product Developer   June 2017 – Dec 2018
Huntington National Bank ⬈   Columbus, OH

Owned multiple projects as test automation lead on an accessibly-minded bank account origination application within the Digital space.

- Wrote automated tests across mobile, ADA accessibility, functional, integration, accessibility and UAT based areas

Data Analyst   May 2016 – June 2017
Ohio Valley Medical Center, Inc.   Wheeling, WV

Streamlined the experience for surgeons managing their weekly schedule of procedures through visual dashboards derived from MEDITECH data.

Education

Wheeling Jesuit University   2013 – 2017
Bachelor of Science, Computer Science   Wheeling, WV

- Minor, Theology
- Graduated cum laude
- Four-year athlete on Swimming Team

Projects

cypress-load-balancer ⧉   *2025*

This is an NPM package for the Cypress automated testing framework that adds functionality for parallelized test runs, either locally or on CI/CD instances. It uses a highly efficient algorithm that optimizes for the fastest execution time possible across all tests divided amongst a count of runner processes. Since a test run is only considered complete when its final test set finishes, this insures that all parallelized runners are kept as close in time as possible.

Find-a-recipe.com ⧉   *2024*

A lot of recipe based websites are bloated, making it difficult to find the information needed, which is what find-a-recipe.com solves. When given a URL to an external website, it can parse out ingredients and directions into an easy-to-read recipe card. These formats include common SEO structures, like JSON schemas, RDFa data, Wordpress metadata, Microdata, and custom website handlers.

Presentations

Component Testing: Bridging the gap for frontend applications   *Columbus, OH*
                                                                             2024
QA or the Highway

Test Isolation: Best Practices for Keeping Your Plans Organized   *Columbus, OH*
                                                                             2023
Lightning Talks hosted by Agility Partners