

Zheyi Zhuang

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EDUCATION

University of Washington, Paul G. Allen School of Computer Science

September 2018 - December 2022

- Bachelor of Science in Computer Science
- Cumulative Grade Point Average: 3.85; Dean's List: 13 quarters

Summary

- Proficient programming skills in **JavaScript, TypeScript, Python, Go, Rust, Java, C/C++, C#, and Shell Scripting**.
- Expertise in responsive web design using **HTML, CSS, JavaScript (ES6), TypeScript**.
- Skilled in modern UI frameworks like **Tailwind CSS, Shadcn/UI, Material UI, and Bootstrap**.
- Advanced proficiency in using **React.js** and **Next.js** to develop single-page applications (SPA), leveraging performance with static-site generation (SSG) and server-side rendering (SSR), and **Redux/Apollo GraphQL** for state management.
- Experience in building robust **RESTful APIs** using **Node/Express**, and both relational and NoSQL databases (**PostgreSQL, MongoDB, GraphQL**), as well as working with **Supabase/Firebase** for cross-platform application development.
- Familiarity with **Docker** and **Kubernetes** for containerization and orchestration.
- Experience working with cloud platforms: **AWS** (S3, EC2, Redshift, Amplify, ECS), **GCP**, and **Azure**.
- Experience maintaining **CI/CD pipelines** to automate software building, testing and deployment, utilizing tools like **Azure DevOps** and **GitHub Actions**.
- Exceptional team player with a strong sense of responsibility; Excellent communicator with ability to adapt and learn quickly in agile development environments, consistently exceeding team and project expectations.

Work Experiences

Microsoft Corporation

April 2023 – Current

Software Engineer I – Team CMD

- Collaborated with cross-functional teams from IC3, Cognition, MTR, and OEMs to develop high-performance intelligent camera pipelines and hardware devices, enhancing hybrid Microsoft Teams meeting experience.
- Successfully shipped Plaza and Jabra intelligent cameras with voice and face identification capabilities, seamlessly integrated with Copilot features, including summarizing meeting speaker keynotes and action items.
- Led weekly bug bash sessions with teams up to 30 to improve the firmware, WebRTC stack, and Microsoft Teams Client.
- Ownership in E2E intelligent camera regression testing framework, resulting in a 30% increase in test coverage.

BeaconFire Inc., New Jersey (Remote)

August 2022 - December 2022

Full-Stack Engineer

- Spearheaded the maintenance of internal software platforms while delivering 5+ new microservices, enhancing the CI/CD pipeline in a containerized development environment, utilizing React, TypeScript, Tailwind CSS, Docker, AWS ECS.
- Upgraded existing platforms to achieve a 30% performance boost and enhanced security. Accomplished through in-depth investigation and improvements to backend middleware and database accesses, employing Node, Express, MongoDB.
- Implemented comprehensive testing strategy, covering 100+ unit tests for user interfaces and backend using Cypress.

University of Washington, Seattle

June 2021 - August 2022

Web Development Teaching Assistant

- Facilitated instruction for a web development course, guiding a cohort of 40 students in essential web development skills.
- Developed comprehensive course materials, covering HTML5, CSS, JavaScript, React.js, Node.js, Express.js, SQLite, MongoDB, RESTful APIs, Git, data visualizations, responsive web design, security vulnerabilities.
- Provided guidance and support to students in designing and implementing 10+ creative projects, fostering a collaborative environment that encourage code reviews and constructive feedback.

University of Washington (Remote), Seattle

February 2020 - June 2021

Full-Stack Engineer – Sensors, Energy, and Automation Laboratory

- Led an agile development team in deploying a content management system (CMS) to manage over 50 lab projects and support 400+ student/faculty researchers; streamlined project management process and improved overall efficiency.
- Implemented and delivered 5+ microservices, including a project issue tracker, team communication channel, and project showcase. Technology encompasses React, Redux, Typescript, AWS Amplify, AWS AppSync, AWS Fargate, AWS Cognito, Google OAuth, JWT, and Terraform.