

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, Java, C/C++, C#, Go, and Shell Scripting**.
- Expertise in responsive web design using **HTML, CSS, JavaScript (ES6), TypeScript**.
- Skilled in modern UI frameworks like **Material UI, Bootstrap, and Tailwind CSS**.
- Advanced proficiency in using **React.js** and **Next.js** to develop single-page applications (SPA), static-site generation (SSG), and server-side rendering (SSR).
- Demonstrated experience in building secure and scalable **RESTful APIs** using **Node.js, Express.js**, and both relational and NoSQL databases (**MySQL, MongoDB, GraphQL**), as well as working with **JSON** and **JWT** for authentication.
- 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 and communicator with a strong 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, AI, CTS, 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 50 and actively engaged with TAP (Technology Adoption Program) customers to gather feedback and improve the firmware, feature pipeline, and Microsoft Teams UI.
- Refactored and improved E2E intelligent camera regression testing framework, resulting a 30% increase in test coverage.

BeaconFire Inc., East Winsdor (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, Seattle (Remote)

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.