

# Zheyi Zhuang

[benjaminzhuangjobs@outlook.com](mailto:benjaminzhuangjobs@outlook.com) • 206-651-1233 • [LinkedIn](#)

## Education

- 
- Carnegie Mellon University, School of Computer Science December 2026
- Master of Software Engineering
  - Estimated Cumulative Grade Point Average: 3.9/4.0
  - Relevant Coursework: Cloud Computing, Quality Assurance, Design Patterns, Product Managements
- University of Washington, Paul G. Allen School of Computer Science December 2022
- Bachelor of Science in Computer Science
  - Cumulative Grade Point Average: 3.85/4.0; Dean's List: 13 quarters
  - Relevant Coursework: Machine Learning, Natural Language Processing, Operating Systems, Algorithms, Computer Graphics

## Professional Experience

- 
- Microsoft Corporation (C) April 2023 - October 2024
- Software Engineer I – Team CMD AI Devices*
- Architected and delivered an end-to-end people identification system in Microsoft Teams meeting rooms, expanding AI capabilities to legacy hardware and improving accessibility for enterprise clients.
  - Engineered and optimized a real-time face detection pipeline processing 1080p video at 30fps with 99% accuracy, directly enhancing meeting experiences for 10M+ global users.
  - Collaborated cross-functionally with security and compliance teams to design a privacy-first face enrollment pipeline.
  - Enhanced multilingual voice recognition capabilities, raising accuracy to 95% across 40+ languages, improving inclusivity for international Teams adoption.
  - Instituted a robust testing framework with 99% code coverage for AI/ML components, cutting regression incidents by 30%.
- BeaconFire Inc., New Jersey (Remote) August 2022 - December 2022
- Full-Stack Engineer*
- Spearheaded internal management platform and activated scalable frontend infrastructure for developer onboarding.
  - Streamlined CI/CD pipelines to deploy internal tools, shortening deployment times by 10 mins per release.
  - Wrote comprehensive unit/integration/e2e tests to ensure zero downtime in CI/CD releases.

## Academic Experience

- 
- University of Washington, Seattle June 2021 - August 2022
- Web Development Teaching Assistant*
- Taught and supported 40+ students in advanced web development concepts and algorithms.
  - Mentored students in software design principles and led code reviews for student projects.
- Sensors, Energy, and Automation Laboratory, University of Washington February 2020 - June 2021
- Software Engineer - Research DevOps Team*
- Led development of a research-oriented content management system enabling real-time data analysis for 500+ daily entries.
  - Designed and automated a research data processing microservice, eliminating 30-hour human labor per week.

## Projects

- 
- Cypress — Collaborative Knowledge Management Platform, Independent Project
- Architected and implemented a Notion-like platform supporting real-time collaborative document editing and version control.

## Skills

---

Programming Languages: JavaScript/TypeScript, Python, Go, Java, C++, C#, Shell Scripting.  
Frontend Tools: React, NextJS, Redux, Apollo Client, Jest, Tailwind CSS, shadcn/ui.  
Backend Tools: NextJS, Apollo Server, NodeJS, Gin, Java Spring Boot.  
Architectures & Services: RESTful APIs, GraphQL APIs, Microservices.  
Machine Learning: PyTorch, TensorFlow, HuggingFace, Scikit-learn, Computer Vision, NLP, BERT.  
CI/CD & Tools: Linux/Unix, Git, Docker, Kubernetes, Azure Pipeline, GitHub Actions.  
Databases: PostgreSQL, MongoDB, Redis, Azure Cosmos DB.  
Cloud Platforms: Azure (ML, DevOps, AAD), Supabase, AWS (EC2, S3, Lambda).