

Zongze Wu

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Education

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

Sep 2024 – Jun 2026

B.S. in Computer Science, **GPA: 3.83**

- **Coursework:** Data Structures, Distributed Systems, Software Design & Implementation, Database Management, Discrete Math, Operating Systems, Systems Programming (C/C++), Computer Security, Artificial Intelligence

Bellevue College

Sep 2022 – Jun 2024

Associate Degree in Art & Science, **GPA: 4.0**

Skills

- **Programming:** Java, Python, TypeScript, C/C++, JavaScript, SQL, HTML/CSS
- **Frameworks:** Spring Boot, React 18, Node.js, Express.js, Next.js
- **Technologies:** Docker, AWS S3, AWS Lambda, Kubernetes, AWS EC2, PostgreSQL, MySQL, Redis, Git, REST APIs, JWT

Experience

Open Source Contributions | Various Projects

Sep 2024 – Present

- Resolved placeholder resolution issue and provided comprehensive tests in **Caddy Server** (30k+ stars) by implementing runtime regex compilation for HTTP header directives (**PR #7117**)
- Contributed to **Kubernetes Java Client**, improving API usability by fixing method chaining issues in KubernetesApi

Co-Founder | Tech Giant Club

Aug 2023 – March 2024

- Led technical workshops on software development and Organized collaborative full-stack development projects

Projects

Software Engineer | DubHacks Hackathon Team

Oct 2025

- Developed **SpeakTeX**, a real-time voice-to-LaTeX web application enabling hands-free mathematical expression input through natural speech recognition
- Architected serverless backend infrastructure using **AWS Lambda** and **S3** for audio processing pipeline, integrating **AWS Transcribe** and **Gemini API** for speech-to-LaTeX conversion
- Collaborated with team members utilizing **React**, **DynamoDB**, and **MediaRecorder API** to deliver production-ready MVP with live preview and LaTeX rendering capabilities within 36 hours

Enterprise Supply Chain Analysis System | Fullstack & AI Agent Developer

Mar 2025 – Jun 2025

- Developed intelligent analytics system using **Python** and **Crew AI** to create specialized agents for financial, sales, and inventory analysis
- Built interactive dashboards with **React/TypeScript** providing real-time data visualization and analytics capabilities
- Designed automated data transformation processes reducing manual analysis work by **40%**

Employee Management System | Full-Stack Developer

Jun 2025 – Jul 2025

- Built enterprise-grade application using **React 18**, **TypeScript**, and **Spring Boot 3.x** with comprehensive employee/departments management
- Implemented **JWT authentication** with Spring Security and developed **18 RESTful APIs** with OpenAPI documentation
- Architected production infrastructure using **Docker Compose**, **Nginx**, and **PostgreSQL** with health monitoring
- Established **CI/CD pipeline** using **GitHub Actions**, achieving **90%+ test coverage** through JUnit.

Food Delivery System | Backend Developer

Dec 2024 – Jan 2025

- Designed and deployed backend services using **Spring Boot** and **RESTful APIs** for authentication, order processing, and menu management modules with **90%+ test coverage** using JUnit
- Optimized system performance through **Redis caching** strategies reducing database load by **25%** and integrated **JavaMail API** for automated order notifications

GoBang Web Game with AI | Fullstack Developer

Aug 2024 – Nov 2024

- Developed responsive Gomoku game using **JavaScript (ES6+)**, **Node.js**, and **Express.js** with Canvas API rendering
- Deployed **PostgreSQL** database on **AWS EC2** and integrated **MinMax algo with alpha-beta pruning** for AI opponent

Achievements

- **Dean's List** (Fall 2024 – Spring 2025), University of Washington
- **Machine Learning Specialization Certificate** (Nov 2023 – Feb 2024), Stanford & DeepLearning.AI
- **Hoffman Prize Award** (Apr 2024), Bellevue College Math Department