Song Zhang

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Education:

University of Oregon – Eugene, OR — September 2023 – June 2027
Bachelor of Science in Computer Science — GPA: 4.05/4.00
Relevant Coursework: Data Structures, Algorithms, Secure Software Development, Software Engineering

Skills:

Languages: HTML/CSS, JavaScript, TypeScript, Python, Go, C, SQL
Technologies & Tools: React, Next.js, Flask, Node.js, REST APIs, PostgreSQL, MongoDB, Docker, Git, CI/CD, Unit Testing, Scrum, Postman, Linear, Supabase, Electron, Stripe

Experience:

Software Engineer, QuackHacks – Eugene, OR — June 2026 – Present

- Designed and built a full-stack frontend and backend archive initiative preserving every past QuackHacks hackathon platform, capturing event sites that served 200+ participants, 70+ projects, and 40+ judges.
- Architected the next event iteration (QuackHacks 4), designing the frontend and backend to extend a platform built on AWS Amplify with a PostgreSQL/Supabase backend, handling hundreds of concurrent users and thousands of real-time messages on event day.
- Migrated hundreds of user accounts and thousands of records of event data from past QuackHacks events into the QuackHacks 4 platform, ensuring continuity of records across iterations.

Co-Founder & Software Engineer, Synrax – Eugene, OR — January 2026 – May 2026

- Co-founded an AI startup and code-review platform that auto-reviews pull requests and runs smoke and unit tests via GitHub Actions, posting inline feedback before merge; competed in the Oregon Innovation Challenge.
- Built a Golang backend running Claude via AWS Bedrock, using tool-use and JSON-schema validation to produce structured, reliable review output.
- Shipped a Next.js and React TypeScript dashboard with a PostgreSQL database, Stripe billing, and webhook-driven usage metering, implementing server-side caching and pagination to reduce API load and deliver fast, responsive queries over large datasets.

Additional Experience — December 2019 – August 2024

- **Contract Delivery Driver**, USPS – optimized multi-stop routes and safely handled 250+ packages consistently.
- **Kitchen Cook**, Panda Express – maintained safety standards during rush hours, serving 300+ customers daily.
- **Medical Office Assistant**, Family Care Center – administered COVID-19 tests during the pandemic and maintained HIPAA-compliant records for 100+ patients weekly.

Projects:

Coffee Companion – Next.js, React, Python, Flask, MongoDB

- Developed a full-stack web application (Next.js, Flask REST APIs, MongoDB) that lets users log and analyze coffee brewing metrics, including brew strength, water temperature, and coffee-to-water ratios.
- Designed a diagnostic algorithm that identifies likely brewing problems and fixes from an entry's self-rated strength and acidity (1-5 scale), then used its output to ground an AI-powered tuning analysis that returns a chat-style breakdown and a suggested tuned copy of the entry, powered by Claude.

Drawing Game – HTML, CSS, JavaScript, Python, Flask, WebSockets, MongoDB

- Created a real-time multiplayer drawing/guessing game (Skribbl.io-style) with a Flask backend and WebSocket low-latency sync for up to 6 concurrent players.
- Developed a responsive, user-friendly frontend interface with vanilla JavaScript and CSS, ensuring smooth drawing mechanics and state updates across multiple different screens.