Austin Tsow

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EDUCATION

Gonzaga University   **Aug. 2022 - Dec. 2025**
Bachelor of Science in Computer Science, Software Security Concentration
- **Relevant Coursework:** Algorithms & Abstract Data Structures, Cryptography, Database Management Systems, Design & Analysis-Comp Algorithms, Discrete Structures, Machine Learning, Numerical Methods, Operating Systems, Software Development, Software Engineering, Speech & Natural Language Processing, Organization of Programming Languages
- **Activities:** People For & With Others LLC, Association for Computer Machinery, Investment Club, Asian American Union

Bellevue College | Associate in Arts and Sciences (Running Start)   **Sep. 2020 - June 2022**

EXPERIENCE

applyied (applyied.com) | Software Engineer, Full Stack   **Sep. 2024 - Present**
- Co-founded an AI-powered job platform using Next.js (TypeScript), Firebase, Python, and OpenAI API with GitHub Actions.
- Built an AI-driven resume parsing and intelligent tracking system, managing 800+ applications for 50+ active users.
- Developed modular server components with Tailwind CSS and scalable backend architecture for edge-ready performance.

PACCAR | Software Engineer Intern   **May 2025 - Aug. 2025**
- Cut Lambda error resolution time by 86% (7 to 1 day) with CloudWatch logging, markdown parsing, and Lambda versioning.
- Built AWS serverless pipeline (Python, Terraform, LangChain–Bedrock LLMs), automating incident classification and triage.
- Integrated Jira REST API to auto-generate tickets from AI-classified errors for real-time monitoring and backlog tracking.
- Delivered features in Agile sprints using modular Lambda layers, CI/CD pipelines, and Terraform infrastructure automation.

Independent Pharmacy Cooperative (IPC Rx) | Software Engineer, Full Stack Lead   **Sep. 2024 - May 2025**
- Rebuilt IPC's platform as a cross-platform mobile app using .NET MAUI, modernizing UI/UX for 7,000+ pharmacies.
- Integrated backend services via Swagger/OpenAPI and built a real-time notification system with Firebase and OneSignal.
- Led sprint planning, stand-ups, and retrospectives as Scrum Master for a 5-member Agile team via Azure DevOps.

PROJECTS

Zero-Fee Blockchain Transaction Research   **Aug. 2025 - Present**
- Researching blockchain protocols to enable scalable, instant, zero-fee transfers between Web3 wallets and bank accounts.
- Designing Solidity smart contracts and off-chain settlement transaction flows to reduce costs and latency significantly.
- Exploring integration architectures for Web3-to-fintech systems supporting exchanges, stablecoins, and DeFi payments.

Personal Website (austintsow.com)   **Mar. 2023- Present**
- Developed a React portfolio with live crypto and stock ticker fetching real-time data via Yahoo Finance API with CORS proxy.
- Engineered component-based routing architecture using React Router with dynamic blog slugs and responsive navigation.
- Implemented mobile-responsive design with CSS keyframe animations and viewport-adaptive layouts for cross-device UX.

AI Recipe App   **Oct. 2024 - Dec. 2024**
- Developed a full-stack Android application in Kotlin, generating personalized recipe suggestions from user-input ingredients.
- Integrated OpenAI GPT-3.5 API for NLP-driven meal generation with low-latency and optimized server responses.
- Applied MVVM architecture and optimized HTTP request handling for logical, scalable client-server communication.

University Voice Assistant   **Nov. 2023 - Nov. 2023**
- Built an NLP-powered voice assistant for gonzaga.edu using Python, HTML, CSS, Scrapy, and modern parsing frameworks.
- Indexed and parsed campus-wide content to enable highly accurate contextual queries and efficient fast retrieval.
- Delivered real-time voice responses with SpeechRecognition and gTTS in a responsive and interactive web interface.

Footstep Prediction Visualizer   **Jan. 2023 - May 2023**
- Trained a TensorFlow model on time-series datasets to forecast predictive step patterns and long-term movement trends.
- Implemented real-time Python ingestion pipelines with preprocessing, normalization, and inference for scalable analytics.
- Built an interactive visualization dashboard displaying forecasts, key patterns, anomalies, and interpretability insights.

SKILLS

- **Programming Languages:** Python, Java, SQL (PostgreSQL), JavaScript/TypeScript, C++, HTML/CSS
- **Frameworks & Libraries:** React, TensorFlow, .NET MAUI, Flask, Tailwind CSS, SQLAlchemy
- **Tools & Platforms:** AWS, Prompt Engineering, Terraform, GitHub Actions, Azure DevOps, Jira, Firebase, Vercel, OpenAI API