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, GPA: 3.97 **Sep. 2020 - June 2022**

EXPERIENCE

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) to automate incident classification and analysis.
- Integrated Jira REST API to auto-generate tickets from AI-classified errors for real-time monitoring and backlog tracking.
- Developed modular Lambda layers with markdown parsing, layer versioning, and CloudWatch logging for observability.
- Delivered features in Agile sprints with CI/CD pipelines using GitHub Actions and Terraform for infrastructure automation.

applyied (applyied.com) | Software Engineer, Full Stack **Sep. 2024 - Present**
- Co-founded an AI-powered job platform using Next.js (TypeScript), Firebase (Auth, Firestore), Python, and OpenAI's API.
- Developed modular server components, integrated Tailwind CSS for UI, and built scalable backend and edge-ready systems.
- Implemented AI-driven resume parsing and intelligent tracking pipelines to streamline and enhance overall job searches.
- Deployed platform on Vercel for secure, high-performance global delivery and continuous integration with GitHub Actions.

IPCRX | Software Engineer, Full Stack Lead **Sep. 2024 - May 2025**
- Rebuilt IPC's platform into a cross-platform mobile app using .NET MAUI with modernized UI/UX for iOS and Android.
- Implemented MVVM architecture, dependency injection patterns, and modular components for scalability and maintainability.
- Integrated backend services via Swagger/OpenAPI and built a real-time notification system with Firebase and OneSignal.
- Led sprint planning, stand-ups, reviews, and retrospectives as Scrum Master for a 5-member Agile team via Azure DevOps.
- Used Git-based source control, automated CI/CD pipelines, and production deployments to ensure reliable delivery.

PROJECTS

Zero-Fee Blockchain Payments Research **Aug. 2025 - Present**
- Researched blockchain protocols to explore scalable, instant, zero-fee transfers between Web3 wallets and bank accounts.
- Prototyped Solidity smart contracts and off-chain settlement transaction flows to reduce costs and latency significantly.
- Designed scalable Web3-to-fintech integration infrastructure supporting exchanges, stablecoins, and DeFi-based payments.

AI Recipe App **Oct. 2024 - Dec. 2024**
- Developed a full-stack Android application in Kotlin with MVVM architecture to generate personalized recipe suggestions.
- Integrated OpenAI GPT-3.5 API for NLP-driven meal generation with low-latency and optimized server responses.
- Applied unit testing and automated tests to ensure quality, reliability, and scalability in recipe generation workflows.

Personal Website **Mar. 2023- Present**
- Created React/JavaScript portfolio site with reusable components and modern responsive architecture for scalability.
- Designed branded pages reflecting personal values with strong usability, accessibility, and device adaptability.
- Iterated on layout, content, and interactivity to improve performance, responsiveness, and overall experience.

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.

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.

SKILLS

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