# Austin Tsow

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## EDUCATION

**Gonzaga University** Spokane, WA
*Bachelor of Science in Computer Science, Software Security Concentration* *Aug. 2022 - Dec. 2025*
- **Relevant Coursework:** Algorithms & Abstract Data Structures, Applied Cryptography, Database Management Systems, Design & Analysis-Comp Algorithms, Discrete Structures, 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** Bellevue, WA
*Associate in Arts and Sciences, GPA: 3.97* *Sep. 2020 - June 2022*
- **Activities:** Taiwanese Student Association, Computer Science Club, Badminton & Pickleball Club

## EXPERIENCE

**PACCAR** Renton, WA
*Software Engineer Intern* *May 2025 - Aug. 2025*
- Cut Lambda error resolution time by 86% (7→1 day) via CloudWatch logging, markdown parsing, and Lambda versioning.
- Built a serverless AWS pipeline with Python Lambdas, Terraform, and LangChain-Bedrock for incident analysis via SES.
- Integrated Jira REST API to auto-create tickets from error events for real-time monitoring, triage, and backlog generation.
- 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) Seattle, WA
*Software Engineer, Full Stack* *Sep. 2024 - Present*
- Co-founded 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 authentication, resume parsing, and application tracking pipelines tailored to streamline job search workflows.
- Deployed platform on Vercel for secure, high-performance global delivery and continuous integration with GitHub Actions.

**IPCRX** Spokane, WA
*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.
- 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 Azure DevOps for tracking, Git-based source control, automated CI/CD pipelines, and production deployments.

## SKILLS

**Programming Languages:** Java, Python, C++, JavaScript, HTML, CSS, SQL (PostgreSQL), TypeScript, Kotlin
**Frameworks & Libraries:** React, .NET MAUI, Tailwind CSS, Flask, SQLAlchemy, TensorFlow
**Tools & Platforms:** AWS, GitHub, Terraform, Firebase, Jira, Azure DevOps, CI/CD (GitHub Actions), LangChain, OpenAI API, Web3, DeFi

## PROJECTS

- **Password Manager:** Engineered a secure password management system using Flask, PostgreSQL, and SQLAlchemy for backend API design and relational data modeling. Implemented secure password hashing (bcrypt) and token-based credential recovery, ensuring encrypted storage and secure authentication workflows. Built a minimalist, responsive UI using HTML/CSS to improve usability and user retention.
- **AI Recipe App:** Developed a full-stack Android app in Kotlin using Android Studio that generates recipe suggestions from user-input ingredients. Integrated OpenAI's GPT-3.5 API for NLP-driven meal generation. Designed reactive UI with MVVM architecture, optimized HTTP request handling, and improved client-server communication for faster response times and reduced latency.
- **Personal Website:** Created a personalized portfolio using React, JavaScript, CSS, and Python to showcase my background and interests through a clean, component-based architecture. Designed each section to reflect my personality and values, with responsive UI and intuitive navigation. Continuously iterating on layout, content, and interactivity to enhance usability and self-expression.
- **Footstep Prediction Visualizer:** Designed and trained a TensorFlow-based predictive model using time-series movement data to forecast step patterns. Implemented real-time data ingestion, preprocessing, and inference logic in Python. Built a dynamic D3.js-like visualization dashboard to display trends, patterns, and predictive analytics in an interpretable format.
- **University Voice Assistant:** Built an NLP-powered voice assistant using Python, HTML, and CSS for gonzaga.edu, leveraging the Scrapy framework for web scraping and data extraction. Indexed campus-wide content and implemented query parsing for contextual results. Delivered voice interaction using SpeechRecognition and gTTS libraries in a responsive web interface.