

Tong Wu

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Tech Skills:	Java, JavaScript, Python, SQL, HTML, CSS
Coursework:	Data Structure and Algorithm, Recommendation and Search System, Software Designs, Databases and Data Modeling, Programming Languages and Implementation, Information Policy and Ethics
Software Tools:	React, Node.js, GitLab, GitHub, Supabase, Firebase, n8n, Figma, MS Office
Transferable Skills:	Team Collaboration, Problem Solving, Communication, Adaptability, Creativity

EDUCATION

Bachelor of Science in Informatics University of Washington	June 2026
<i>Focus: Software Engineering, Data Science, Human-Centered Interaction</i>	
<i>GPA: 3.85 / 4.00 (Honor: Dean's List)</i>	

RELEVANT EXPERIENCE

AI Engineer Intern Captus.ai Seattle, WA	June 2025 – Present
<ul style="list-style-type: none">Launched 5 production-ready AI agents (chatbot, file ingestion, email manager, meeting notetaker, risk assessment) using Python, JavaScript, and n8n, automating 70% of manual workflowsIncreased chatbot accuracy from 20% to 80% by designing an evaluation framework and refining RAG pipelines, directly improving user trust, adoption, and retention ratesProcessed and embedded 1K+ multi-modal documents (text, PDF, Excel, DOCX, images, video) into Supabase, powering semantic search and improving knowledge accessibility for clientsBuilt and optimized a 30-table Supabase database, implementing advanced SQL for data cleaning, metadata management, and similarity scoringDeveloped a real-time dashboard with JavaScript, HTML, CSS, and Supabase integrations, delivering live, mission-critical client data	

TECHNICAL PROJECTS

Maze Generation and Pathfinding	December 2024 – March 2025
<ul style="list-style-type: none">Built a Java-based maze visualizer with a shortest path solver using Dijkstra's algorithm, achieving 100% accuracy and 40% faster computationDeveloped Kruskal-based maze generator, producing 100% solvable mazes with 3× complexityEstablished GitLab CI/CD pipeline with auto-deployment on pull requests, streamlining commit reviews and accelerating reliable code delivery	
Search and Recommendation System for Finding Recipes	September 2024 - December 2024
<ul style="list-style-type: none">Integrated BM25, TF-IDF, and LM retrieval models, optimizing search relevance and ensuring an improvement in user query satisfaction by filtering the most relevant recipes efficientlyApplied multiple AI/ML libraries to clean, organize, and transform data into well-structured data frames for analysisDesigned an intuitive recipe search UI using JavaScript, CSS, and HTML, enhancing the user search experience across the platform	
Music Streaming SQL Database	September 2024 - December 2024
<ul style="list-style-type: none">Designed and implemented a complex relational music database with 15+ interrelated tables simulating real-world entities like users, songs, artists, and platformsWrote and optimized 10+ advanced SQL queries using CTEs, subqueries, and joins to extract insights on streaming behavior, artist performance, and platform usage	

COMMUNITY ENGAGEMENT

- **Vice President** | Husky Help Organization (UW RSO) May 2024 – June 2025
 - Orchestrated 20+ community-centered events for the UW Asian student community, collaborating with cross-functional teams to boost participation and secure \$5,000 in sponsorships
 - Led mentorship initiatives for 25+ new members, strengthening retention and fostering leadership development through structured guidance and hands-on support
- **DA INFO FIG Leader** | UW First Year Program March 2025 – Present
 - Designed and developed a GEN ST 199 course module to help incoming DA INFO students transition smoothly into UW academics and campus life.
 - Trained in teaching, communication, and advising strategies, gaining in-depth knowledge of UW and iSchool resources to effectively mentor first-year students.
 - Preparing to lead lectures and mentor a cohort of 30 freshmen, focusing on building community, academic confidence, and student engagement.