

Tan Nguyen

Email: tnguyen3758@gmail.com GitHub: github.com/Rujyng

EDUCATION

- **Master of Science in Computer Science** Expected Graduation Mar 2027
Western Washington University - Bellingham, WA GPA: 3.8
- **Bachelor of Science in Computer Science** Jan 2023 – Dec 2024
Western Washington University - Bellingham, WA GPA: 3.7

TECHNICAL SKILLS

- **Languages:** Python, TypeScript, Kotlin, Java, C, SQL
- **Cloud & DevOps:** AWS (Lambda, S3, APIGW, Step Functions, DynamoDB, CloudWatch, CDK), GitLab CI/CD
- **Tools & Frameworks:** React Native, React, Node.js, Supabase, MySQL, scikit-learn, PyTorch, FFmpeg

PROFESSIONAL EXPERIENCE

- **Lallia** Sep 2026 - Present
Software Developer (Part-Time Contract)
 - Developed full-stack features for a voice storytelling application using React Native, TypeScript, Node.js, and Supabase, integrating mobile functionality with backend services.
 - Improved Android voice playback reliability by implementing **native Kotlin audio handling** for speaker/Bluetooth routing, interruption recovery, and playback stall detection and recovery.
 - Implemented a confirmation-based forgetting workflow across the voice runtime and backend to **redact user-selected content from transcripts and recordings**, refresh model context, and support story deletion.
- **Cai3p0** Jun 2025 - Sep 2025
Backend Developer Intern
 - Built and deployed AWS backend services for an application serving 15+ real estate companies, contributing to cloud architecture and backend data-flow design.
 - Designed, implemented, tested, and deployed **8 API integrations** involving Salesforce, GoHighLevel, and ElevenLabs, reducing integration turnaround time by **30%**.
 - Translated **client business requirements into a technical solution**, researched APIs, proposed architecture and data flow to a senior developer and product manager, then **independently implemented and deployed** the solution to production.
 - **Delivered 24 features and bug fixes** through GitLab CI/CD, collaborating on design, testing, debugging, and production troubleshooting.

PROJECTS

- **Fishing Highlight Generator for Social Media - GitHub** Jul 2026
Python, AWS S3, AWS Rekognition, FFmpeg, Whisper
 - Built a Python/AWS video-processing pipeline using S3, Rekognition, FFmpeg, and Whisper to identify fishing events and generate ranked, captioned highlight clips from long-form footage.
- **Multilevel Feedback Queue Process Scheduler - GitHub** Jun 2024
C, Operating Systems, CPU Scheduling, Data Structures
 - Implemented a multilevel feedback queue CPU scheduler in C using queue-based data structures, process preemption, priority scheduling, pointers, and memory management to manage process execution.

CERTIFICATIONS

- **AWS Certified Developer – Associate (DVA-C02)** Feb 2025

RESEARCH

- **Eye-Tracking Study on Human Error and Software Defect Prevention** Sep 2025 - Present
 - Leading a four-member research team, coordinating experiments, data analysis, and research development.
 - First author of “*Evaluating the Effects of Human Error Training on Software Defect Prevention Using an Eye Tracker*,” accepted at QRS 2026.
 - Currently developing machine learning models to analyze eye-tracking data and identify patterns associated with software errors, extending findings from the accepted research.
- **AI-Assisted Fault Diagnosis for Programmers** Feb 2024 - Jun 2025
 - Conducted research on software fault diagnosis by fine-tuning large language models for multi-label classification of human error modes in annotated programming submissions.

UNIVERSITY TEACHING EXPERIENCE

- **Teaching Assistant - Computer Science** Jun 2023 - Present
Western Washington University - Bellingham, WA
 - **Courses:** CSCI 241 (Data Structures & Algorithms), CSCI 305 (Analysis of Algorithms I), CSCI 345 (Object-Oriented Design), CSCI 405 (Analysis of Algorithms II), CSCI 511 (Graduate-level Analysis of Algorithms).