MARTIN TRAN

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EDUCATION

San Jose State University   **San Jose, CA**
Bachelor of Science (B.S), Software Engineering   *Expected Graduation Date: June 2026*
- Cumulative GPA: 3.6/4.0
- Activities: SJSU Software and Computer Engineering Association (SCE), Science Extravaganza, MESA

Relevant Coursework:
Java Programming, Object-Oriented Design, Database Management, Data Structures & Algorithms, Software Engineering, Web Development, Computer Organization, Computer Networks, Operating System, Machine Learning, Programming. Paradigms, Distributed Systems

EXPERIENCE

AWS (AMAZON WEB SERVICES)   **Seattle, WA**
Software Development Engineer Intern   *May 2025-August 2025*
- Authored a **detailed technical design document** outlining **CI/CD architecture** and **API integration strategy**; received **positive feedback** from 4+ senior engineers and managers for clarity, scalability, and alignment with team goals
- Designed and implemented a CI/CD pipeline feature to streamline deployment workflows for Amazon developers, improving release reliability and reducing manual effort
- Delivered a **production-ready full-stack service** adopted by Amazon developers, improving developer productivity and accelerating iteration cycles through a React/TypeScript dashboard by displaying the hidden policies
- Partnered with **10+ engineers** across agile sprints, contributing to design reviews, code reviews, and stand-ups to ensure feature alignment with team-wide technical goals
- **Implemented** comprehensive unit and integration tests across all features, achieving **90%+ code coverage** and strengthening reliability in production environments.

Tools: Java, Spring Boot, TypeScript, React, Python, Kotlin, AWS DynamoDB, AWS Lambda, JUnit, Mockito

SJSU PEER CONNECTIONS   **San Jose, CA**
Embedded Tutor - CS 149 (Operating Systems)   *August 2025-Present*
- Supporting in-class lecture for CS 149 by circulating during classes, assisting students with questions on challenging operating system concepts
- Providing one-on-one guidance in C and Unix/Linux system calls, improving students' debugging and problem-solving skills
- Assisting **400+ students** across a wide range of subjects, including CS, Math, Physics, and Computer Engineering, explaining concepts, guiding problem-solving, and preparing students for upcoming exams, and having the **highest average utilization rate** of **89.41%** and the **highest number of total appointments** of **437 appointments**
- Coordinating closely with the embedded class's professor to enhance student learning, clarify difficult topics, and ensure a strong understanding of CS 149 concepts

Learning Assistant- PHYS 50 (General Physics I - Mechanics)   *Jan 2025-June 2025*
- Supported students in a big lecture hall of **200+** people by facilitating weekly small-group, in-class activities that improved engagement and conceptual understanding
- Delivered weekly insights on student performance and participation, helping faculty tailor instruction to meet evolving classroom needs

PROJECTS

SPAM EMAIL CLASSIFICATION (Link | Paper)
- Processed and cleaned a dataset of over **10,000** raw emails (SpamAssassin), including regex-based URL/email masking, newline handling, and tokenization
- Developed and trained a transformer-based email spam classifier using **DistilBERT**, achieving **98.8%** accuracy on test data
- Achieved **F1 scores of 0.982 (spam)** and **0.990 (ham)**, demonstrating robust model generalization and balanced class performance

Tools: Python, PyTorch, Hugging Face, scikit-learn, Transformer Model

R.I.C.E PROJECT (Link) - Financial Budgeting for College Students
- Collaborated effectively with a team of 4 to deliver a high-quality full-stack web application utilizing ReactJS for the front end and Flask for the back end on time and within budget
- Developed and deployed **over 20 robust RESTful APIs** to streamline and enhance user interactions, resulting in a **30% increase** in application performance

Tools: React, JavaScript, Python, Flask, PostgreSQL, Supabase, Tailwind CSS

SORT YOUR LIFE (Link) - Asset Management
- Architected and refined **CRUD operations** and engineered a responsive JavaFX user interface using **MVC** and advanced OOP principles, improving **data management efficiency by 30%** and **reducing development time by 25%** while enhancing user interaction

Tools: Java, JavaFX, CSV-file manipulation

LEADERSHIP/INVOLVEMENT

SJSU SOCIETY OF COMPUTER & SOFTWARE ENGINEERING (SCE)   **San Jose, CA**
EP/PR Officer - Industry Lead   *January 2024-December 2025*
- Organized logistics for company visits, including transportation, attendance tracking, and scheduling, resulting in **3+ successful site tours**
- Initiated and managed outreach to **10+ tech companies**, coordinating industry tours to connect SJSU students with real-world engineering environments and professionals

SKILLS

Programming: Java (Advanced-Intermediate), Python (Advanced-Intermediate), JavaScript/TypeScript (Intermediate), SQL (Intermediate), C/C++ (Beginner)

Technologies: Linux, Git/GitHub, React.js, Flask, SpringBoot, Tailwind CSS, AWS Services, MySQL, PostgreSQL, SQLite, jQuery