

MATTHEW TRAN

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SUMMARY

I'm a passionate, social, and creative software engineer searching for Summer 2024 software engineering internships. I love learning new tools and technologies and working with a team of like-minded individuals to develop software solutions of the future!

EDUCATION

Santa Clara University, Santa Clara, CA

B.S. Computer Science and Engineering w/ Mathematics Minor, Jun 2025

School of Engineering Mentor

- GPA 3.76/4.00
- Relevant Coursework: Advanced Data Structures (C/C++), Computer Networks, Cryptography, Embedded Systems, Electrical Circuits, Logic Design, Algorithms, Web Development, Programming Languages

SKILLS

- Programming Languages: C, C++, Dart(Flutter), Java, Python, ARM Assembly, JavaScript, HTML, CSS
- Operating Systems: Linux, Windows 10, Windows Server (2016)

EXPERIENCE

Software Quality Assurance Intern

11Sight, Berkeley, CA

Jun 2023 - Sep 2023

- Research and set up physical device station for test automation with Appium and Selenium
- Automated test cases in collaboration with full time engineers to help improve ease of use for users
- Report bug findings to software developers to mitigate user experience issues and confirm releases

Software and AI/ML Instructor

ID Tech Camps, Santa Clara, CA

Jul 2023 - Jul 2023

- Instructed week-long courses on Python for implementation of artificial intelligence and machine learning
- Instructed introductory course on Java for simple game development and applications
- Cared for general camp operations (setup, teardown, administration, photography, parent relations)

Electronic Hardware Technician

Concept to Development US, San Jose, CA

Dec 2021 - Aug 2022

- Integrated custom electronics and wiring for customers including Apple, Tesla, AEHR Test Systems, etc.
- Collaborated with full-time engineers on-site at Apple (Cupertino) and Tesla to accelerate prototype development by 10% and inform on possible manufacturing difficulties
- Optimized assembly line by 20% with use of Linux, wire tools, fabrication tools, wiring schematics

PROJECTS

AI Powered Spreadsheet Formatting Tool, Commissioned Project

- Admin web app for startup "Kevala" prompts OpenAI's API to assist in taking a parsed spreadsheet and reformatting it into a standardized and usable form for customer success. HTML, Node.js
- Significantly boosts customer sales by cutting labor time by 95% through the strategic use of Language Model (LLM) technology for efficient spreadsheet reformatting, replacing the need for manual processing by engineers that previously took over 4 hours

Stock Bot Automated Monitor Project, Personal Project

- Coded Python script to monitor availability of e-commerce items, specifically sneakers
- Script autonomously imports/parses site to send email updates via SMTP when status changes in order to notify ecommerce customers when a desired product becomes available and increase purchasing power

Company Database, Advanced Data Structures Lab

- Designed system design project for database of arbitrary number of companies and products with information
- Established database as a dynamically allocated array of company objects, containing a BST of products
- Engineered an efficient method to store, add, delete, and search with object oriented data structures using C++

Reliable Data Transfer Socket Program, Computer Networks Lab

- Implemented client/server socket program to reliably transfer file via UDP on unreliable channel
- Solved packet integrity issues with RDT3.0 style implementation using C, IoT, Socket Programming