KEVIN **CHAN**

kevchan129@gmail.com | 650-773-8885 | San Jose, CA 95126 | linkedin.com/in/kevchan129
Portfolio: eegithubuser.github.io/kevchan.github.io

Projects

Backend REST API Store and Item Tracker (Python, Flask, SQLAlchemy, Alembic, Redis, Docker, JWT)
GitHub link: github.com/EEgithubUser/rest-apis-stores_items-project
• Created and deployed a backend web service that allows clients to create stores and items using REST API endpoints
• Applied Docker containerization for initial development and cloud web service deployment for production
• Adopted JSON Web Token generation at user login and implemented JWT requirements to protect existing endpoints
• Enhanced user re-authentication process on specific endpoints using the concept of token refreshing

Health & Fitness Coaching Web Application (Python, JavaScript, HTML, CSS, Flask, SQLAlchemy, Unittest)
GitHub link: github.com/EEgithubUser/coachingwebapp
• Developed a full-stack web app that provides access for users to personalized health/fitness coaching
• Utilized SQLAlchemy to manage an extensive backend user database of calorie counting, nutrition tracking, weight logging, and food journaling for multiple user profiles encrypted through SHA-256 user authentication login methods
• Resulted in users weight loss of over 70 pounds and increased contractile muscle tissue of over 50 pounds

Overdue Laboratory Equipment Script (Python, Selenium WebDriver)
GitHub link: github.com/EEgithubUser/equipmentcalibration
• Wrote and implemented Python scripts to automate shipment/pickup requests for overdue electrical lab equipment
• Automated web browser launching, populating form control input fields, managing multiple running tabs, implicit and explicit wait times, and dropdown menu selection using Selenium WebDriver

Automated Weekly Report Generator (Python, Openpyxl, Docx, Smtplib)
GitHub link: github.com/EEgithubUser/reportgenerator
• Designed Python scripts to automate the weekly generation of Excel spreadsheets that logs daily pass-downs for the current week by scraping notes from a separate Microsoft Word document

Work Experience

KLA Corporation   Milpitas, CA
Lead Test Engineer - Laser Scan Optics Team   Jan 2018 - Present
• Lead a team of 13 Test Engineers in project management by implementing automated test scripts to optimize workflow, representing a 52% quarter-on-quarter increase for product shipments in CY2022
• Spearhead ramp up of 83% in product deliveries to customers year-over-year, from 64 to 117 products delivered in CY2021, with the introduction of custom scripts developed to automate the sampling of digital to analog voltages
• Accelerate the production of New Product Integration cameras by modifying automated gain calibration test scripts to support custom-calibrated light levels of test fixtures, reducing cycle time by 25% in CY2020

Education

San Jose State University   San Jose, CA
B.S. Electrical Engineering   August 2015 - May 2017
• Relevant Coursework: Data Structures and Algorithms; Object Oriented Programming; Circuit Logic Design

Skills

Languages: Proficient in Python and SQL; Familiar with C++, JavaScript, HTML, CSS
Technologies: Flask, RESTful API, PostgreSQL, SQLAlchemy, Docker, Kubernetes, Linux, Bash, Git, Selenium