Kevin A. Li

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EDUCATION

The University of Texas at Austin (Software Engineering) GPA: 3.9/4.0 **Dec 2022**

Relevant Courses: Software Design, Software Testing, Algorithms, Computer Architecture, Computer Vision

EXPERIENCE

Software Engineering Intern at BP **Summer 2022**

- Led a high-performing team of software engineering, UI/UX, and data engineering interns to develop a full-stack (React, Flask, MongoDB) web application which tracked the ROIs of small scale wind turbines across global BP retail sites
- Conducted software development using AGILE, specifically through the Kanban/Scrumban process
- Extensively utilized Git for version control in a team of four, allowing software to be efficiently reviewed and deployed
- Developed a Python Flask backend using a flexible object-oriented architecture, resulting in scalable and efficient software
- Successfully deployed the web application with AWS, and developed skills with virtual machines and REST APIs
- Wrote technical/financial memos to persaude stakeholders to acquire necessary new strategic technologies for our project

Controls Engineering Intern at Samsung Austin Semiconductor **Summer 2021**

- Implemented two database specification tracking Ignition dashboards in Python to improve factory resilience; dashboards are currently being used in daily meetings by at least three different departments
- Software is thoroughly tested and incorporates error handling, having not failed at all after release (>5 weeks)
- Learned how to develop algorithms and GUIs with a flexible, customer-driven mindset, adhering to the SDLC
- Developed strong project management skills while taking multiple projects from start to finish
- Developed technical advocacy ability while "selling" my project to over thirty different engineers and managers

Product Engineering Intern at Cirrus Logic **Summer 2020**

- Familiarized myself with industry quality standards, production/testing techniques, and the engineering workplace
- Developed Python algorithms and several additional functions to automate aspects of Burn-In testing/translation
- Developed and debugged existing JMP scripts for use in data and statistical qualification analysis
- Documented and presented my technical work and its applications to the US and UK product engineering teams

ACADEMIC PROJECTS

College Handsign Detector **Fall 2021**

- Webcam-based handsign detector able to detect and categorize multiple human hand signs in real time
- Utilized machine learning (K-Means, Nearest Neighbor, MediaPipe Hands) to perform detection and classification
- Supervised training performed, with NumPy, SciKitLearn, OpenCV utilized for data processing

Full-Stack HAAS App **Fall 2021**

- Full stack application for hardware inventory and management, able to process check-out/in requests for users
- Python Flask backend, React/CSS frontend, MongoDB database, Heroku cloud deployment
- Confluence documentation, with Jira board used for AGILE development (team of five)

Regression Test Generator **Spring 2021**

- Java program which can automatically generate tests for a given Java class from its methods
- The generator can create hundreds of tests per second, enabling it to rapidly find bugs and faults

Online Auction Simulator **Fall 2020**

- Java program simulating an online auction server, allowing clients to register, log in, and place bids
- Flexible, easily scalable code supporting admin privileges, multiple different consoles, and persistent data storage

Computer Vision Assisted Video Game Bot **Summer 2020**

- CV-assisted Python program emulating a human player in a real time video game
- Tested and deployed with great success, yielding a large in-game profit

SKILLS AND ADDITIONAL INFORMATION

Computer Skills: Python, Java, C, C++, SQL, MongoDB, React.js, HTML/CSS, JavaScript, ARM Assembly, JMP, VBA, Git, Azure DevOps, Azure Cloud, Oracle Cloud, AWS, Confluence/Jira, UI/UX development, Ignition HMI, Linux/Unix, Test Frameworks (PyTest, JUnit) for Unit and Integration Testing, MS Office Suite, PowerBI, Power Apps, Regular Expressions, Microcontrollers, Figma, MURAL, Networking, BASH scripting, Pandas, JSON, Web Scraping, OOP, Pandas, WSL, Serverless, UML, PEP, SCADA