

Ben Theurich

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Education

Bachelor of Science in Software Engineering

California State University San Marcos (CSUSM), GPA 3.9

May 2023

Relevant Experience

Contract Software Engineer

HM Electronics, Carlsbad, CA

August 2022 - Present

- Coordinated with multiple teams to establish a continuous integration (CI) process between development builds and automated testing using Jenkins automation servers and Azure cloud
- Utilized Ansible to improve setup process for new Raspberry Pi's, increasing productivity by 200%
- Revamped automation architecture to create a more intuitive approach for selecting executor nodes

Software Engineering Intern

HM Electronics, Carlsbad, CA

June 2022 - August 2022

- Developed a front-end interface for a simulator application using Python and the Flask web framework
- Streamlined installation and deployment of the new interface to various Raspberry Pi's by leveraging shell scripts and Linux services
- Identified and resolved issues in Python code for automating web browser tests using Selenium

Software Engineering Intern

Tech For Good, Boston, MA

June 2021 - August 2021

- Coded donation collection and distribution functionality in Solidity using Ethereum smart contracts
- Collaborated remotely with team of 7 other interns using GitHub, Zoom, and Notion

Relevant Achievements

First Place in LPL Financial's 2023 24-Hour Hackathon (github.com/BenTheurich/Stocker)

Co-led team of three students to win by creating a financial tool powered by artificial intelligence (AI) and machine learning (ML). This innovative tool utilized natural language processing (NLP) to assign sentiment ratings to top stocks in a selected market sector. Built using Python, HTML, and CSS and deployed using an AWS Linux Virtual Machine with the Flask web framework. Our work on this project was recognized by senior executives at LPL Financial for its innovation and completeness.

Projects

SecuriKey (github.com/BenTheurich/SecuriKeyGUI)

September 2021-December 2021

- Secure password management application using Java to store encrypted passwords on a USB flash drive
- Designed with 4 other students using multiple software design patterns like Strategy, Command, and Proxy
- Researched cryptography methods and implemented Advanced Encryption Standard (AES) and Blowfish

Video Player (github.com/BenTheurich/VideoPlayer)

January 2023

- Personal project, a Java-based video player with Swing GUI for playing local video files
- Implemented VideoLAN Client for Java (VLCj) to provide high-quality video playback capabilities

Technical Skills

- **Programming Languages** - Java, Python, C++, SQL, Bash, Cucumber
- **Development Tools** - Git, VI, JUnit, Selenium, Jenkins, Jira, Flask, Ansible, Confluence

Relevant Courses

- Operating Systems
- Software Architecture
- Data Structures & Algorithms
- Software Planning & Management
- Embedded Systems
- Computer Architecture