**K**EVYN **H**IGBEE

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EXPERIENCE

| **California State University San Marcos** | *Dec 2021 - Present* |
| --- | --- |

**Information Technology Consultant**

* Worked with team to process tickets in support of over 40,000 clients
* Developed internal scripts and programs using Bash and Python to enhance team efficiency when working with Wufoo forms and Alcatel-Lucent network switches
* Mentored new hires on good practices and team processes and effectively communicated with team and users, fostering a collaborative work environment
* Created documentation for processes and troubleshooting problems, allowing easy reference and knowledge sharing for team
* Demonstrated quick problem solving and adaptability to new software, interfacing with vendors when needed

PROJECTS

| **Port Security Manager (Python)** | *Feb 2023* |
| --- | --- |
| * Wrote a GUI and SSH Handler in Python to interface with Alcatel-Lucent networks switches on AOS versions 6 and 8 * Used knowledge of regex and string handling to generate information and ssh scripts based on user input * Implemented a custom console for extra I/O and logging * Safely stored and retrieved user credentials for use across multiple ssh sessions using symmetric encryption | |

| **Receipt Reader (Python)** | *May 2021* |
| --- | --- |
| * Utilized computer vision, object detection, and OCR to transform and read text in images into memory * Created an algorithm to group related text from a transformed image based on positional data into a JSON format * Sourced data sets to test and improve accuracy of algorithm by comparing expected and actual output | |

| **Towers of Hanoi AI (C++)** | *May 2021* |
| --- | --- |
| * Wrote Towers of Hanoi Puzzle that can create puzzle’s of *n* height * Implemented an AI using A\* that can solve the previously mentioned puzzle in the most efficient number of turns | |

| **Process Scheduler (C)** | *December 2020* |
| --- | --- |
| * Developed a program that uses different scheduling algorithms to test their efficiency (Random, FCFS, SJF) * Runtime speed ranked fastest over all submissions in the same semester | |

| **Compiler (Python)** | *December 2020* |
| --- | --- |
| * Created a compiler supporting mathematical and logical operations using Backus-Naur Form * Implemented a customized GUI using tkinter * Utilized Tokens and regex to parse input | |

EDUCATION

| **California State University San Marcos**  B.S. in Computer Science | *August 2017 - May 2021*  GPA 3.4*, Dean’s List* |
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**Relevant Coursework:** *Data Structures, Networking, Software Engineering, Deep Learning, Artificial Intelligence, Assembly and Digital Circuitry, Programming Languages, Computer Architecture, Digital Electronics, Statistics, Calculus I & II, Linear Algebra*

SKILLS

| **Programming Languages:**   * C/C++ * Python * Java * HTML/CSS | **Other Skills:**   * Git * CLI * Bash * Unix, Windows, MacOS * Eclipse, Visual Studio Code, Visual Studio |
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