Alex N Hernandez Perez

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SUMMARY

Recent Computer Engineering Graduate with a strong computer science and engineering principles foundation and hands-on software development experience. With a passion for solving complex problems and creating efficient solutions.

EDUCATION

University of California: San Diego   **La Jolla, CA**
Bachelor of Science Computer Engineering   **Oct 2020 - June 2023**
Relevant coursework: Adv. Data Structures and Algorithms, Software Engineering, Advanced Digital Design

EXPERIENCE

Qualcomm Sorrento Valley, CA
Engineering Technician   **Jan 2024 - Present**

- Performed chipset evaluation based on engineering specifications.
- Troubleshoot complex electrical circuits as well as mechanical equipment relating to the testing of chipsets.
- Work closely with the engineering staff to perform tests on the chipset and provide analysis of test results.

KEY PROJECTS

Nachos Operating System library | April -June 2023 | Java.
Collaborated with a team of 4 members to implement a simplified operating system library called Nachos in Java, providing a platform for simulating and experimenting with operating system concepts and algorithms.

- Implemented a robust process management and communication system in Java using 10+ system calls that enabled Multiprogramming.
- Integrated memory management techniques include virtual memory and page replacement algorithms, with 4 pages of 1 KB sized memory.
- Analyzed and developed algorithms closely with team members to ensure compatibility and functionality of the Nachos library, with an average of 91% passing tests.
- Conducted thorough testing (over 15 +) and debugging in C to ensure stability and correctness.

SKILLS

- Languages: Java, Python, C++, HTML, CSS, JavaScript/Node.js, MySQL
- Other: Scrum/Agile Methodologies, Git, Unix/Linux