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Professional Summary

Driven Software Engineer with over three years of experience in developing and optimizing enterprise hardware systems. Proficient in Python, C/C++, and JavaEE, with deep expertise in automation, system design, and debugging. Proven track record of delivering innovative solutions that enhance system performance by up to 30% and reduce testing time by 40%. Seeking a challenging role to contribute to cutting-edge projects and drive technological advancements.

Core Skills and Technical Expertise

- **Programming Languages:** Python, C, C++, Shell, Java, Assembly
- **Frameworks & Tools:** Selenium, Robot Framework, Flask, JavaEE, AWS, SQLite, MySQL
- **Systems & Hardware:** Linux Kernel Development, PCIe, UART, SPI, I2C, Digital Design, System Verilog
- **Software Development:** Automation Testing, Web Servers, Data Management
- **Project Management:** Leadership, Collaboration, Scheduling, Time Management

Professional Experience

Hewlett Packard Enterprise — *San Jose, CA*
Software Engineer | April 2021 - Present

- **Enhanced System Stability:** Resolved critical IO Card driver issues across RHEL, SLES, and Windows Server, boosting system stability by 30%.
- **Optimized Testing Efficiency:** Developed an Automation Testing Platform in Python, reducing manual testing time by 40% for SuperDome's IO Support Pack releases.
- **Accelerated Data Access:** Designed and maintained a JavaEE webserver for the pci.ids database, improving data access speed by 25%.

Server Engineering Intern (I/O Team) | June 2020 - September 2020

- **Expanded Testing Capabilities:** Extended the `lspci` tool to display enhanced IO card information, improving testing effectiveness.
- **Streamlined Workflow:** Built and deployed tools for updating the pci.ids database, reducing the time required for IO tester operations.

Intelligent Computing and Embedded Systems Lab (CSUSF) — *San Francisco, CA*
Machine Learning Lead Intern | June 2018 - September 2019

- **Led NMI App Development:** Spearheaded the development of a Neural Machine Interface (NMI) Android application, integrating MySQL and AWS for scalable data storage.
- **Optimized Data Systems:** Configured an AWS server to enhance data accessibility, resulting in a significant improvement in user experience and system reliability.
- **Ensured Project Alignment:** Presented weekly progress reports to senior engineers, maintaining alignment with project goals and timelines.

Technical Project Experience

Digital Forensics Android Application | September 2019 - February 2020

- **Data Automation:** Designed a backend using AWS Lambdas, integrating with DynamoDB and S3 for seamless data automation.

Autonomous Phone Projector | October 2019 - November 2019

- **Engineered Automation:** Developed a phone projection system with auto-focusing capabilities using microcontrollers and C.

IOTbot - CPE123 Robot Control | January 2020 - June 2020

- **Real-Time Control:** Developed a client-server architecture for Arduino control via a Flask server, enabling real-time interaction through web sockets.

lspcie - Linux Tool Extension | June 2020 - September 2020

- **Enhanced IO Data Visibility:** Improved `lspci` to display detailed IO card information, including driver, firmware, and EFI version data.

IO Support-Pack Regression Automation | December 2023

- **Automated Testing:** Created a comprehensive suite for automated driver and firmware testing using Selenium and Robot Framework.

Education

California Polytechnic State University — *San Luis Obispo, CA*
Bachelor of Science in Computer Engineering | GPA: 3.89 | September 2018 - December 2020

- **Honors:** Golden International Honour Society

Udemy - Certifications

- **Python Master Class Certification** | Sep 2019
- **Build a Backend REST API with Python and Django** | Sep 2019
- **Beginning C++ Programming - From Beginner to Beyond** | November 2019
- **Master CMake for Cross-Platform C++ Project Building** | Sep 2021
- **C++ Unit Testing: Google Test and Google Mock** | Jan 2022
- **REST APIs with Flask and Python in 2023** | Mar 2023
- **Design Patterns in Python** | Mar 2023
- **Learn Parallel Computing in Python** | Feb 2024
- **Hands-On Python 3 Concurrency With the asyncio Module** | Feb 2024
- **GitHub Actions - The Complete Guide** | Feb 2024
- **Learn Microsoft Power Automate From Scratch** | May 2024
- **Machine Learning A-Z: AI in Python** | Aug 2024
- **Data Analysis With Pandas and NumPy in Python** | Aug 2024

Cañada College — *Redwood City, CA*
Engineering Certificate of Achievement and C++ Certification | June 2018