Dominic Streif
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EDUCATION

California Polytechnic State University | San Luis Obispo, CA
Bachelor of Science in Computer Science (CENG) - **Expected Graduation: May 2027**
- Current GPA: 3.80, Dean's List: Fall 2023, Spring 2024
- Member of the Cal Poly Cybersecurity Club, member of SWANA (of Iraqi descent)

Relevant Coursework: Computer Organization, Object Oriented Prog., Data Structures, Linear Algebra, Calculus 3

Cuyamaca/Grossmont Community College, El Cajon, CA   June 2022 - August 2022
Coursework: A Study of World Religions, Sociology (with emphasis on diversity and equity)

Valhalla High School | San Diego, CA
High School Diploma with Distinction Graduated with a 4.6 GPA   August 2019 - June 2023
8 AP courses: Computer Science, Calculus AB, Chemistry, U.S. History, Human Geography, U.S. Government, Environmental Sciences, World History

TECHNICAL SKILLS

- Programming Languages: Python, Java, Rust, C++, C#, Go, JavaScript, HTML, CSS
- Full-stack Windows/Linux App Development with the QT Framework using QT Creator and QML
- AWS (HPC), Django (application of Django REST Framework), Flask, Beautiful Soup, React
- Reverse Engineering: Reverse engineering proficiency in x86/x64 assembly, with expertise in BLE packet analysis
- Machine Learning: Tensorflow, Pytorch (Engineered custom-trained models for object tracking)
- Docker, SQL, CAN tools

WORK EXPERIENCE

Altec Industries- Core Controls Intern   June 2024 - September 2024
- As a Core Controls Developer, I designed and implemented software tools for CAN frame analysis, including emulation and parsing utilities.
- Additionally, I developed a pull request reporting web server with an SQLite3 database backend for caching, which provided comprehensive analytics and statistical insights on project repositories and their associated pull requests.

California Polytechnic State University (CENG)- Undergraduate Researcher   January 2024 - June 2024
- Collaborative research, with a focus on software development for Human-Robot Interaction.
- Contributing to the design of software solutions for a mechanical arm, utilizing Python on a Raspberry Pi.
- Interfacing the arm with an EEG device to analyze human neurophysiological oscillations for real-time interaction and assistance. AWS HPC used for data transmission and synchronization.

Ibeeto Incorporated- Software Engineering Intern   September 2020 - December 2023
- Developed multi-instrument controller software using an Arduino microcontroller - controller reads analog input signals for acceleration and pressure from a piezo-electric sensor attached to a drum membrane, converts the signals to control acceleration and speed of a stepper motor to strum a guitar concurrently.
- Developed a tailored NFC reader application for android devices (Kotlin) designed for the purpose of enhancing user authentication within REST API databases, ensuring a secure data access experience.
- Conducted in-depth analysis of Bluetooth data traffic to ascertain the operational characteristics of imitative technology, subsequently employing reverse engineering methodologies to harness and exploit inherent functionalities, which would eventually be used to settle a legal dispute