

Sam Bock

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EDUCATION

- **California Polytechnic State University, San Luis Obispo** San Luis Obispo, CA
Bachelor of Science in Computer Science; GPA: 3.76 Sept. 2021 – June. 2025
Relevant Coursework: Intro to Database Systems, Design and Analysis of Algorithms, Project-Based Object Oriented Programming and Design, Systems Programming, Discrete Structures, Intro to Software Engineering, Intro to Computer Organization, Data Structures, Intro to Computing: Security, Fundamentals of Computer Science

EXPERIENCE

- **Lockheed Martin Space** Sunnyvale, CA
Artificial Intelligence and Machine Learning Research Intern June 2023 - Present
 - **Convolutional Neural Networks** : Utilized convolutional neural networks and employed various model training strategies, including data augmentation techniques, to enhance the performance of object recognition, detection, and tracking tasks.
 - **Technologies Used:** Python, JupyterNotebook, TensorFlow, Keras, Scikit-Learn, OpenCV
- **HaptX Inc.** San Luis Obispo, CA
IT Engineering Intern Mar 2023 - June 2023
 - **Conditional Access Policy Creation:** Implemented advanced Microsoft Azure Conditional Access policies to enforce granular security controls based on user location, IP address, reputation score, and other risk indicators.
 - **Hardware Management and Workspace Optimization:** Repaired, upgraded, and tested company computers and hardware. Assisted in setting up and organizing desks, managing cables, and configuring workspaces.
 - **Technologies Used:** Microsoft Azure, Microsoft Intune, Microsoft Loop
- **Cal Poly Information Technology Services** San Luis Obispo, CA
Junior Security Operations Center Analyst June 2022 - Feb 2023
 - **Security Incident Response:** Analyze and take action against suspicious logins, phishing emails, and network traffic using Splunk, Microsoft Azure, and other security tools.
 - **Slack App Development:** Developed a Python-based Slack app to automate email, suppression, and blocking procedures.
 - **Technologies Used:** Splunk, Python, Slack API, Linux

PROJECTS

- **Plan2Gather:** Developed web app that allows users to create events and analyzes best times to meet based on attendees.
- **Custom PC Builder and Trader:** Maintained PostgreSQL database of computer parts and integrated with Python fastAPI backend to allow for selling and purchasing of parts.
- **Wash Alerter (Hackathon):** Built a Python program that scraps data off of Cal Poly's laundry website and alerts users when washers and dryers are available.

CAMPUS INVOLVEMENT AND VOLUNTEER WORK

- **Cal Poly Security Club**, Member 12/2022 - Present
- **Computer Engineering Society**, Member 9/2021 - Present
- **SLO Hillel**, President 9/2021 - Present
- **Youth Leaders of Meniffee**, President 8/2019 - 6/2021

PROGRAMMING SKILLS

- **Languages:** Python, SQL, Java, C++, C
- **Technologies:** TensorFlow, Keras, Scikit-Learn, Linux, MacOS, Windows, Microsoft Azure, Amazon AWS, CloudFlare, Agile, Jira, GitHub, Splunk