

# Sam Bock

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## EDUCATION

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- **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, Programming Languages, Intro to Computer Security, 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

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- **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. Worked with computer vision, deep learning, and machine learning algorithms.
  - **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
- **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

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- **Plan2Gather:** Developed web app that allows users to create events and analyzes best times to meet based on attendees.
- **Portfolio Website:** Built a portfolio website using JavaScript and HTML/CSS to showcase my projects and skills. Hosted on CloudFlare Pages - Version control with GitHub.
- **Qwil Messenger Sign Up Page:** Created a sign up page for Proactive BLG using Astro, TypeScript, and React. Hosted on CloudFlare Pages - Version control with GitHub. API integration with Qwil Messenger.
- **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.

## CAMPUS INVOLVEMENT AND VOLUNTEER WORK

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- **SLO Hillel, President** *Sept 2021 – Present*
- **Cal Poly Baseball Data Analyst, Member** *Sept 2021 – June 2023*
- **Youth Leaders of Meniffee, President** *Aug 2019 – June 2021*

## PROGRAMMING SKILLS

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**Languages:** Python, SQL, Java, C, C++, React, JavaScript, HTML/CSS, TypeScript

**Technologies:** TensorFlow, PyTorch, Scikit-Learn, Linux, MacOS, Windows, Microsoft Azure, CloudFlare, GitHub, Amazon AWS, Agile, Astro