

JOSH FRENDBERG

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EDUCATION

California Polytechnic State University San Luis Obispo Honors Program

Bachelor of Science Degree in Computer Science

Expected June 2026

Overall GPA: 3.98

Major GPA: 4.00

RELEVANT COURSEWORK

Data Structures, Introduction to Object Oriented Programming, Introduction to Computer Organization, Systems Programming, Discrete Structures, Design and Analysis of Algorithms

WORK EXPERIENCE

Software Team Member, Cal Poly CubeSat Laboratory - San Luis Obispo May 2024 - Present

- Wrote modular, reusable code for satellites and lab side projects in C and python inside a massive existing codebase
- Collaborated with tens of members from six separate teams on satellites SAL-E and AMDROHP set to launch in 2025
- Developing a tensorflow deep learning model to classify images taken from orbit, saving time and beacon space

Software Quality Assurance Tester, Cromulent Labs - San Francisco, CA Summer 2022

- Utilized the IOS Developer Beta program to test features of the app 'Launcher' prior to its major IOS 16 update
- Tested software through brute force in order to prevent any bugs from being present at launch
- Logged tens of bugs on GitHub and communicated effectively with developers to ensure that all bugs were fixed

VOLUNTEER WORK

Feline Care Volunteer, Cal Poly Cat Program - San Luis Obispo, CA April 2024 - Present

- Fed animals and cleaned habitats to ensure a comfortable living environment for the animals
- Participated in a work environment and delegated tasks efficiently with coworkers

PERSONAL PROJECTS

Movie Recommendation Platform | Python, Django, CSS, HTML January 2024 - March 2024

- Developed a movie centered social media platform using Django framework in python
- Users can create personalized profiles, explore films, and create groups to receive specific recommendations
- Managed a large code base through GitHub

Tic Tac Toe AI | Python December 2023

- Created an Artificial Intelligence based on the minimax algorithm to play tic tac toe against a user
- Developed a text based functional Tic Tac Toe Game with Player V Player, Player V CPU, and CPU V CPU modes

Word Hunt AI | Python December 2023

- Utilized computer vision technology to build a bot which finds every possible valid word in a word-hunt square
 - Model takes in a screenshot of the board and outputs a list of every word that can be played using a database of words
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SKILLS SUMMARY

- Coding Languages: Proficient in Java, Python, GitHub, CSS, and HTML, C
- Familiar with Django framework, SQL and artificial intelligence
- Skills in cybersecurity

CERTIFICATIONS

Microsoft Technology Associate - Introduction to Programming using HTML and CSS

Information Technology Specialist - Information Technology Specialist in Cybersecurity