

# Ellie Pearson

San Luis Obispo, CA | [ellie.jm.pearson@gmail.com](mailto:ellie.jm.pearson@gmail.com) | (805) 858-8242

[linkedin.com/in/ellie-pearson-b21099295](https://www.linkedin.com/in/ellie-pearson-b21099295)

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I am a dedicated and reliable professional with a deep interest in human-computer interaction and artificial intelligence. Committed to continuous learning and growth, I am eager to expand my skill set and contribute to innovative products.

## Education

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**Cal Poly, San Luis Obispo**, BS in Computer Science Expected Graduation: 2026

- **GPA:** 3.97
- **Coursework:** Intro to Software Engineering, Design & Analysis of Algorithms, Systems Programming, Project-Based Object-Oriented Programming, Computer Organization, Data Structures

## Experience

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**Software Engineering Research Assistant**, Orfalea College of Business - Remote June 2024 - Present

- Increased functionality and optimized code as an extension of the BEACoN research project
- Utilized SQLite database management system to implement bookmark feature
- Developed multi-threading for a variety of processes to increase usability, efficiency, and increase functionality
- Upgraded the user interface through PyQt5 to improve user experience

**ITS Student Assistant**, Cal Poly – San Luis Obispo, CA May 2024 - Present

- Managed IT tickets through Jira about a variety of network, hardware, and software issues in a timely manner
- Helped oversee the deployment of over 25 new workstations by communicating with the customer, imaging each computer, installing software, and setting up the workstations
- Gained proficiency in both Windows and MAC devices/operating systems

**BEACoN Research Scholar**, Cal Poly – San Luis Obispo, CA January 2024 - June 2024

- Research assistant exploring how generative AI can enhance podcast audience interaction
- Collaborated with two professors and a peer to conduct a literature review, submit to the IRB, and create a presentation
- Enhanced podcast app using python and object-oriented programming design
- Integrated APIs, audio input/output, and file processing to create a new Q&A feature

## Projects

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### Linux Shell

- Developed a custom Linux shell using C that mimics the basic functionality of standard shells like Bash
- Parsed input to support common commands such as cd, ls, mkdir, touch, and others by leveraging system calls and custom logic.

## Technologies

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**Languages:** (*proficient*): Python, Java, C (*familiar*): JavaScript, HTML/CSS, React