

Kailuan Liu

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EDUCATION

Cal Poly San Luis Obispo

BS, Computer Science

June, 2027

San Luis Obispo, CA

- Cal Poly Scholars
- **Relevant Coursework:** Data Structures, Systems Programming, Object-Oriented Programming, Intro to Digital Art

PROFESSIONAL EXPERIENCE

Hack4Impact Developer

California Polytechnic State University, San Luis Obispo

Oct. 1 – Present

San Luis Obispo, CA

- Frontend/Backend developer
- Worked with local business as a non-profit developer to create websites for them

PROJECT

County Demographic Data Analysis Tool

Developed in C

Nov. 2024

San Luis Obispo, CA

- Created a tool to load, filter, and analyze U.S. county-level demographic data from CSV files.
- Built functions to process and display key statistics on education, ethnicity, income, and population.
- Enabled flexible filtering by state, education level, ethnicity, income, and population, optimizing memory usage for large datasets.
- Developed features to calculate percentages for demographic groups, such as Bachelor's degree holders, ethnic populations, and income below the poverty level.
- Designed a system that dynamically processes operations from external configuration files, making the analysis adaptable and easy to modify.

Jigsaw Puzzle Game

Godot game engine, GDScript

June. 2024 - Sep. 2024

San Luis Obispo, CA

- Worked as back-end developer and implemented a functional database with Firebase to integrate with Godot
- Implemented Firebase OAuth to get and store data from user's logins
- Implemented storage in Godot with GDScript to store individual coordination of the puzzle pieces
- Configured puzzle pieces to automatically reset to their original positions when the player replays the same puzzle.

ACTIVITIES AND LEADERSHIP

Kaja Krew Dance Club

Treasurer

Feb. 2024 - Present

San Luis Obispo, CA

- Coordinated fundraisers with businesses to raise money for the club
- Evaluates budgets for socials, and miscellaneous items
- Handles merch, membership dues, and member discounts

SKILLS & INTERESTS

- **Skills:** Python, C, Java, RISC-V Assembly, HTML, CSS, Adobe Photoshop, Illustrator, InDesign
- **Developer Tools:** Google Cloud Platforms(Firebase), VS Code, PyCharm, IntelliJ
- **Languages:** Mandarin(native), English(fluent)