

CYRUS LEE

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EDUCATION

University of California, Irvine

Computer Science, B.S.

Irvine, CA

Expected Graduation June 2027

GPA: 3.98

Honors & Awards: Regents' Scholarship, National Merit Scholarship, Dean's Honor List

Relevant Coursework:

- **Python:** Programming with Software Libraries, Intermediate Programming
- **C/C++:** Programming in C/C++ as a Second Language
- **Data Structures:** Boolean Logic and Discrete Structures, Discrete Mathematics, Data Structure Implementation and Analysis (*In Progress*)
- **AI:** Machine Learning and Data Mining (*In Progress*)
- **Assembly:** Introductory Computer Organization (*In Progress*)

CodePath

2024

- **TIP 103:** Advanced Technical Interview Prep (*In Progress*)

PROJECTS

Programming Language Interpreter

- Developed an interpreter for a custom, assembly-like programming language using **Python**
- Implemented arithmetic instructions, functions, variables with data types with 100% accuracy

Airport Information Database

- Built backend of a GUI program that displays region information from an airport database, dealing with 200+ regions, using **SQL** and **Python**
- Implemented robust user error handling and input validation to protect against SQL injection

Network Simulation

- Simulated a device communication network, implementing a protocol in which devices propagate alert messages and cancellations to each other
- Achieved faster simulation by implementing time-sorted event queue, rather than just simulating the system in sped-up time

Clone of *Columns* (1989)

- Developed a clone of block-stacking game *Columns* (1989) using **PyGame**
- Fine-tuned delayed auto repeat input to improve gaming experience and created an 8-bit cover of *Dance of the Reed Flutes* for a classic Tetris atmosphere

Art Tools

- Created a maze generation program and mosaic editor tools for use by classmates in art class projects (during high school)
- Implemented as a website using **JavaScript** and **HTML/CSS**

SKILLS

Programming: Python, C/C++, JavaScript, Java, SQL, R, Bash

Tools/Other: Git, Linux, Raylib, Vim, \LaTeX

Languages: English (native), German (beginner)