

ALEC GOEDINGHAUS

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EDUCATION

University of California, Los Angeles

Sep 2019 - Jun 2023

B.S. in Computer Science, Mathematics, 3.519 GPA

Honors: Dean's Honors

SKILLS & TOOLS

Skills: C/C++, Python, HTML/CSS, JavaScript, Bash, CLisp, OCaml, L^AT_EX

Tools: Git/GitHub, Unix/Linux, VSCode, Twilio, NumPy, Selenium, Skimage, Tweepy

EXPERIENCE

Berkeley Skydeck

June 2017 - July 2017

Summer Intern

Berkeley, CA

- Conducted research and analyzed data regarding the company's analytics and comparisons with other startup accelerators.
- Communicated between different startups to gain insight about programming and starting a company.

PROJECTS

CPU Simulator

December 2021

- Used C++ to simulate a RISC-V CPU capable of handling nine different instructions.
- Implemented various optimizations such as pipelining and a cache with multiple eviction policies.

EndFTs

April 2022

- Created a Twitter bot in Python that would take a user's profile picture and mint it into an NFT.
- Winner of LAHacks 2022 for most creative use of blockchain technology.

MiniRogue

May 2020

- Developed a game in C++ based off of Rogue, where a player must navigate through several levels of a dungeon avoiding different types of monsters.
- Implementations include an inventory system, chat messages, and weapons with various attributes.

Image Numbering

August 2021

- Created a Python script that groups like-colored pixels of an image by overlaying it with numbers.
- Implemented customizable options such as a user-defined tolerance, expanded view which separates groups into multiple images, and more.

Malloc Lab

November 2020

- Developed a custom dynamic memory allocation library in C that utilizes a segregated list to maximize utilization and throughput.
- Performed at about 80-90% efficiency compared to C's standard malloc function.

ACTIVITIES & INTERESTS

Activities: ACM, Undergrad. Math Student Association, Club Martial Arts (Muay Thai, BJJ)

Interests: CS/Math/Physics, Exercise, Movies/Films, Languages, Cooking