

# ALEC GOEDINGHAUS

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## EDUCATION

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**University of California, Los Angeles**

*Sep 2019 - Jun 2023*

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

Honors: Dean's Honors

## SKILLS & TOOLS

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**Skills:** C/C++, Python, HTML/CSS, JavaScript, Bash, CLisp, OCaml, L<sup>A</sup>T<sub>E</sub>X

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

## EXPERIENCE

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**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

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**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

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

**Interests:** CS/Math/Physics, Exercise, Movies, Mental Health, Languages, Cooking