

Jake A. Herron

Software Engineering

Contact

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Education

University of California, Los Angeles

Expected June 2022

- Bachelor's of Science in Computer Science
- Cumulative GPA: 3.65

Skills

Languages Python • Javascript • C++ • Swift • C • Bash

Tools React • NodeJS • Express • MongoDB • HTML/CSS • Git • Linux • x86 Assembly • WebGL

Coursework

Computer Science

- Algorithms and Complexity
- Data Structures
- Data Science Fundamentals
- Computer Graphics
- Operating Systems
- Computer Systems Architecture
- Computer Organization
- Software Construction Laboratory

Management

- Finance and Marketing for Engineers
- Technology Management and Economics for Engineers

Experience

Information Technology Intern | Precision Diagnostics

July 2019 – September 2019

Precision Diagnostics is a San Diego biotechnology company specializing in high-sensitivity clinical oral and urine drug testing.

- Documented and troubleshoot Python and Django projects used for primary lab test processing in order to facilitate better code readability and ease of use for future developers

Activities

Association of Computing Machinery

September 2018 – Present

- Member of ACM Hack and ACM Studio at UCLA
- Won second place in ACM Hack's app development hackathon for Pinstagram
- Participated in coding workshops including Python, Swift, and Unity game development

Projects

Wrong Generation

December 2020 – January 2021

- Web application allowing users to search up a date in history and retrieve the top songs from the Billboard Hot 100
- Utilizes React frontend, NodeJS/Express backend, and MongoDB database
- Includes Spotify API to provide accurate track metadata and link to song and artist pages

Pinball Wizard

November 2020 – December 2020

- 3D interactive pinball game featuring advanced features such as physics simulation and collision detection
- Created using Javascript and WebGL along with other graphical libraries
- Presented as the final group project for a Computer Graphics class and was quoted as "one of the best demos in the course"