

Ambrose Hundal

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Experience

Roku - Software Engineer Intern

June 2019 - November 2019

- Collaborated in a small team to implement a tool for over 250 developers to track and control critical changes in release branches.
- Developed and deployed a full-stack application in Python (Django) using a Docker container to increase speed and deployment.
- Implemented a newer version of an existing tool for an improved UI, easier workflows and greater auditing and control.

UC Santa Cruz Chemical Screening Center - Lead Software Engineer

January 2019 - Present

- Developed an analytical tool using Node.js and React.js for examining and inspecting images from different lab experiments.
- Created 5 automation scripts in Python to extract scientific data from CSV files to update MySQL database in a Docker container.
- Designed the model schema to save and retrieve information for over 1 million images.

BetterManager (<https://www.bettermanager.us/>) - Software Engineer Intern

June 2018 - December 2018

- Developed the controller and view section of a coaching portal dashboard for over 1500 coaching clients using Ruby on Rails.
- Designed user-interface pages using custom CSS, JavaScript and JQuery.
- Wrote code for schema migration to update the database using Ruby.

UC Observatories/Lick Observatory (www.ucolick.org) - Web Developer

July 2017 - January 2019

- Created, maintained and updated webpages on the UCO website using JavaScript, HTML5, CSS.
- Changed file permissions, group ownerships, file access on the unix1 server repository using Linux command-line interface.
- Updated the observatory website with upcoming astronomical events using live server access.

Education

University of California, Santa Cruz

Bachelors of Science in Technology and Information Management

September 2016 - August 2020

Projects

Cal-Hacks Covid Hackathon 2020

- Collaborated in a team of 4 to build a spontaneous chats web app using React and Node.js. I implemented the backend in Express.js and spun up a MySQL database in a Docker container for testing.

Stockshare

- Implemented 5 different APIs to retrieve news information about different companies' stocks using Flask(Python) and React.js

Bodyfeed

- Developed and designed a full stack application in Ruby to organize and manage grocery lists, and fetch local Meetup events using the Google Maps API and the Meetup API respectively.

Domespace (Cruz hacks 2019)

- Developed a full-stack application for users to rent and use sports facilities using Ruby on Rails, JavaScript and Google Maps API.

Skills

Languages - Python, Javascript (Proficient), C++, Java (Experienced)

Frameworks - Django, React.js, Ruby on Rails

Cloud Technologies - Amazon Web Services (AWS)

Tools - Node.js, Linux, Git, Docker, Jira, Confluence

Databases - MySQL, PostgreSQL

Methodologies - Agile, Scrum

Coursework

Compiler Design

Embedded Systems (C)

Data Structures and Algorithms

Computer Architecture

Advanced Programming C++

Database Management

Computer Networks

Operating Systems