

Ambrose Hundal

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Internship Experience

Software Engineer Intern

Roku

June 2019 - November 2019

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

Software Engineer Intern

BetterManager

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.

University Work Experience

Lead Developer

UCSC Chemical Screening Center

January 2019 - Present

- Developed an image analysis tool for increased productivity and streamlined workflows using Express (Node.js) and React.js.
- Created 5 different scripts in Python to write to the MySQL database in Docker to automate data updates and isolate testing.
- Designed the model schema in the database and improved query performance by over 70%.

Web Developer

UC Observatories/Lick Observatory

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.

Languages and Technologies

Languages - Python, Javascript, C++, Java

Frontend - React, HTML, CSS

Backend - Express (Node.js), Django, Ruby on Rails

Cloud - Amazon Web Services (AWS)

Others - Docker, MySQL, Linux, Git, Jira

Methodologies - Agile, Scrum

Education

University of California, Santa Cruz

Bachelors of Science in Technology and Information Management

Minor in Computer Science

September 2015 - August 2020

Projects

Cal-Hacks Covid Hackathon 2020

- Collaborated in a team of 4 to build a spontaneous chats web app for professional networking using React and Node.js.

Stockshare

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

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.

Coursework

Compiler Design, Advanced Programming C++, Data Structures and Algorithms, Computer Architecture