

Ambrose Hundal

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Work Experience

Lead Developer **UC Santa Cruz Screening Center** **January 2019 - December 2020**

- Developed an image analysis tool for increased productivity and streamlined workflows using Express (Node.js) and JavaScript.
- Created 4 different Python scripts to write to MySQL database to automate data updates.
- Improved query performance by 40% by designing the database schema and indexing columns.

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.
- Reduced the workflow process from 6 to 3 steps by designing an improved user experience 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.
- Increased speed by 5% for core SQL-database migration by automating schema migration.

Web Developer **UC Observatories** **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, Ruby

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

Projects

Wildfire Tracker

- Built a web app that displays current wildfire events using React.js and fetched coordinates using the NASA API.

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).

Bodyfeed

- Developed a full stack application in Ruby on Rails to organize and manage grocery lists, and fetch local Meetup events regarding nutrition using the Meetup API.

Domespace (Cruz hacks Hackathon)

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

Education

University of California, Santa Cruz

Bachelors of Science in Technology and Information Management

Minor in Computer Science

September 2015 - August 2020

Coursework

Compiler Design, Object Oriented Design, Data Structures and Algorithms, Computer Architecture