

# Ambrose Hundal

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## Work Experience

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### 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.

## Projects

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### Wildfire Tracker

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

### 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.

### Cal-Hacks Covid Hackathon

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

### Domespace (Cruz hacks Hackathon)

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

## Skills and Technologies

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**Languages** - Python, Javascript, Ruby

**Cloud** - Amazon Web Services (AWS)

**Others** - Docker, MySQL, Linux, Git, Jira

**Frontend** - React, HTML, CSS

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

**Methodologies** - Agile, Scrum

## Education

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### University of California, Santa Cruz

Bachelors of Science in Technology and Information Management

Minor in Computer Science

September 2015 - August 2020

## Coursework

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Object Oriented Design

Compiler Design

Data Structures and Algorithms

Computer Architecture