Ambrose Hundal

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Experience

Roku - Build and Release Engineer Intern   **June 2019 - Present**
- Created a build fix tool for over 200 developers to improve auditing and tracking of release branches for thirty embedded devices.
- Deployed a full-stack application in Python (Django) using Docker and used MySQL database on AWS cloud.
- Implemented an intuitive user interface using Vue.js to increase developer productivity to check in code for build errors.

UC Santa Cruz Chemical Screening Center - Lead Software Engineer   **January 2019 - Present**
- Developed a full-stack application using Node.js and MySQL for examining compound images from lab results.
- Designed and refined the model schema to save and retrieve information for over 10,000 chemical compounds.
- Created 5 scripts in Python to extract specific scientific data from csv files to insert into and update the database.

BetterManager (https://www.bettermanager.us/) - Fullstack Software Engineering 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 UI.
- 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 and PHP.
- 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 Computer Science   **September 2015 - June 2020**

Projects

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

Domespace (Cruzhacks 2019)
- Developed a full-stack application for users to rent and use sports facilities using Ruby on Rails, JavaScript and Google Maps API.

SnapSecure(UCSC Hackathon 2017)
- Implemented a gif-maker functionality for snapchat images and videos using Django framework, JavaScript and HTML.

BattleBoats
- Wrote code for the battlefield library for the human player agent in Battle field game on a PIC32X micro-controller hardware in C.

Movie-finder-application
- Created a movie search application in JavaScript and jQuery to fetch over 5000 movies from the Movie Database API with Axiom library.

Skills

Languages - Python, Javascript (Proficient), C++, Java (Experienced)
Frameworks - Django, Ruby on Rails, Vue.js
Cloud Technologies - Amazon Web Services (AWS), Microsoft Azure
Tools - Node.js, Linux, Git, Docker, Jira, Confluence
Databases - MySQL, MongoDB, PostgreSQL
Methodologies - Agile, Scrum

Coursework

Abstract Datatypes and Problem Solving	**Advanced Programming C++**
Embedded Systems (C)	**Database Management**
Data Structures and Algorithms	**Computer Networks**
Computer Architecture	**Operating Systems**