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Jake Armendariz

EDUCATION

Bachelor of Science in Computer Science, UC Santa Cruz 2018-2022

- 3.8 GPA: Scholars Program
- Courses in Distributed Systems, System Design, Networking, Machine Learning, and Statistics.

Graduated from Leigh High School 2018

- Valedictorian of 400+ person class

WORK EXPERIENCE

CDK Global - Software Engineering Intern Summer 2020

- Engineered a backend in Flask that connects car dealerships with Fortellis API to retrieve and display their vehicle inventory, information, and images. Helping CDK compete with online retailers such as Carvana.
- Accelerated the development process by implementing a python script to connect Jira tests with the development environment.

Seastead Digital - Software Engineering Intern July 2019-February 2020

- Implemented contact page, parts of the administration panel, and fixed bugs in PHP.
- Consulted with a remote team in Europe to delegate tasks and project goals.

RELEVANT PROJECTS

Nodejs Notification Server

- Implemented a web server for a chat app to send web-push and mobile notifications.
- Receives messages with braidjs (a CRDT with the web) and distributes notifications with https and FCM.
- Currently being used by the braidjs team to build and communicate ideas and work during development.

HTTP server and load balancer

- Designed and implemented a multi-threaded HTTP server and load balancer in C capable of distributing concurrent requests safely and efficiently.

Machine Learning

- Engineered an auto-encoder to reduce the information (size) of images by 99.7%, with a 2% reconstruction loss. This technique is invaluable for image denoising and anomaly detection.
- Built a recurrent neural network to analyze text data to perform topic classification with 85% accuracy.

Charity Cloud

- Spearheaded a hackathon team to build a Flask application that helps users find reliable information and statistics on charities.

Personal Website

- Implemented a Flask website with secure storage of users' information, high scores and data for my blog.
- Developed a server and interface to allow users to interact with their running/biking data via Strava's rest API to collect, compare, and sort relevant activities.

SKILLS

- Programming Languages: Python, C, Rust & Javascript
- Experience with: Flask, Tensorflow, Java, Pandas & Node.js
- Tools: Unix, Linux & Git