AMAAN SINGH

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OBJECTIVE

I believe my sphere of interest lies in the engineering world as a whole. I am passionate about the opportunity to use my professional and social skills to help drive a business forward, and am eager for more real-world experience in this area.

EDUCATION

University of California, San Diego   La Jolla, CA

Bachelor of Science, Major in Computer Engineering   *Graduation Date: Jun 2024*

PROJECT EXPERIENCE

SPIS Summer Program Project   La Jolla, CA

Python Script Developer   *Jun 2021 - Jun 2021*

- A script that involves my knowledge of Python, web scraping, APIs, and HTTP requests
- A script that takes your Soundcloud playlist and converts it into a Spotify playlist

Software Engineering Class   La Jolla, CA

Web Developer   *Sep 2022 - Dec 2022*

- Meant to simulate how we would work in teams
- Worked on an innovative web project where we learned modern day web development practices
- We as a team had created a scalable, local first booklist website

Intro Comp Vision   La Jolla, CA

Computer Vision Developer   *Jan 2023 - Mar 2023*

- The goal of computer vision is to compute properties of the three-dimensional world from images and video
- Introduced to computer vision, including such topics as 3D shape reconstruction through stereo, motion estimation, and image classification
- Used Python and Opencv

Autonomous Vehicle Development   La Jolla, CA

Autonomous Vehicle Developer   *Mar 2023 - Jun 2023*

- Helped develop an autonomous vehicle using ROS, Python, and hardware components
- Skills learned include project management, adhering to a budget and business planning, working within time constraints, designing to specifications, demonstrating performance, and delivering a well-documented project that others can build on
- Introduced and did development in the following areas: Computer Vision Algorithms for Navigation, On-vehicle vs. off-vehicle computation, Computer learning systems such as Neural Networks, Locomotion Systems, Vehicle Steering and Traction Control, Dead Reckoning, Odometry, Sensor Fusion, Global Positioning Based (GPS) Auto-Pilot limitations, Simulation, Power Management

WORK EXPERIENCE

A-One Towing Bookkeeping   Richmond, CA

Computer Programmer

- Efficiently produced consistent and diligent work
- Development of technological skills
- Involved in leading team meetings

Assist Program Tutor   Crockett, CA

Program Tutor

- Assisted students in struggling subject fields
- Engaged in a leadership role
- Built communicative skills

SKILLS

Languages: Python, C, C++, Java, HTML5/CSS, JavaScript, R, Verilog Frameworks: Django, Flask, React, OpenCV, ROS2, and other multiple front-end frameworks Tools: Unix, Git, Selenium, APIs, Requests, API development in Node.js, Docker, Excel, Powerpoint, Google Suite, Python package development