PARAM SHAH

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EDUCATION

University of California, Los Angeles
B.S. in Computer Science
GPA: 3.7 / 4.00
Class of 2022

AWARDS AND HONORS

Upsilon Pi Epsilon Member – CS Honor Society at UCLA
Engineering Dean's List
Facebook Puzzle Hunt 2019 – 2nd place
IdeaHacks 2020 – Best Education Hack Prize
Google Tech Challenge 2019 – 7th place overall

SKILLS

Languages: C++, C, Python, Linux, Git, Shell, HTML, CSS,
Frameworks: React Native, Flask
Data Science: Pandas, NumPy, Matplotlib, Scikit-learn, TensorFlow

COURSEWORK

Data Structures,
Computer Architecture,
Data Science Fundamentals,
Operating Systems,
Algorithms (Planned),
Machine Learning (Planned),
Software Construction,
Probability Theory,
Linear Algebra and Differential Equations

TOP PROJECTS

Project Co-Lead | tour.AR
January 2020 – Present

- Lead a team of 7 software developers, designers, and 3D modelers to create a virtual tour guide mobile app for UCLA.
- Wrote Product Spec Sheets & Wireframes to provide direction and vision for team members. Use Agile methodologies to set code sprints.
- Help in the development with the help of technologies like AR kit, Core Location, and Google Firebase.
- Technologies used: Swift, Agile

Software Lead | Bruin Spacecraft Group – Project Rapid
April 2019 – Present

- Lead a team of 2 other software engineers to develop the computer system for a CubeSat.
- Developed an embedded systems software that includes task scheduling, multi-threaded applications, and memory management unit written in Rust.
- Developed a system to check anomalies and flight system failure.
- Technologies used: C/C++, Python, Bash, and Rust

Software Developer | BR3W
October 2019 – December 2019

- Responsible for coding the backend and frontend of the mobile app that can control a coffee machine.
- Backend involved communication through Wi-Fi/Bluetooth for data and command transfer and persisting data.
- Frontend involved page navigation, state change, animations, and CSS.
- Technologies used: React Native (JavaScript), CSS

NYC Taxi Trip Duration Predictor

- Analysis to accurately predict the duration of taxi trips in NYC using data science tools like data selection and cleaning, EDA, feature engineering, and model selection.
- Used ML model like tree regression and neural nets to model the data.
- Technologies used: TensorFlow, sklearn, pandas, matplotlib

SMS News Service

- Built an SMS-based news platform that allows users to get their news whenever, wherever, and whatever they want.
- Coded a python backend that uses RESTful APIs to send and receive SMS and web scraping for articles by keyword search.
- Plans to spread to underdeveloped areas without internet connection and areas recently affected by natural disasters.
- Technologies used: Flask, Heroku