

Nishan D'Souza

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EDUCATION

UC BERKELEY

COMPUTER SCIENCE MAJOR

Class of 2022

GPA: 3.82

Intended Geospatial Information Science and Technology (GIST) Minor

Coursework: Databases, Computer Architecture, Data Structures, Structuring Computer Programs, Discrete Math and Probability, Introduction to Electrical Engineering

Clubs and Organizations: Open Computing Facility (OCF), Geospatial Innovation Facility (GIF)

Areas of Interest: Cloud and Distributed Computing, Security/Cryptography, Big Data

SKILLS

LANGUAGES

Python • Java • JavaScript
SQL • C • Swift • HTML/CSS
R • Shell Scripting

TECHNOLOGIES

Flask • Django • Google Cloud Platform • Pandas • Git
NumPy • MEAN Stack
OpenStreetMap • LAMP Stack

ONLINE COURSEWORK

Princeton Algorithms I and II
Stanford CS193 - Swift Programming
Johns Hopkins - R Programming

AWARDS

- Top 50 (of 2000) - EasyCTF
- 2nd place Bay Area, 14th nationwide Lockheed Martin CodeQuest
- 2nd place Congressional App Challenge

EXPERIENCE

LOOKINGBUS | SOFTWARE ENGINEERING INTERN

May 2019 – August 2019 | Palo Alto, CA

- Architected CAD (Computer Aided Dispatch) monitoring system for the product that serves 25000 bus trips per month
- Revamped comprehensive testing suite that asynchronously tested backend API services
- Streamlined company logging and admin services with feature-rich web portals, handling thousands of requests per day
- Designed load-balancing server for backend services in GCP
- Developed REST API endpoints for Android app calls on Python backend
- Used Python, Java, JavaScript with Flask, Google Cloud Platform

UC BERKELEY - HEARST LAB | SOFTWARE INTERN

May 2017 – Sep 2017 | Berkeley, CA

- Developed web platform to facilitate creation and analysis of surveys, used in class of over 50 students and supported future research
- Used Python, SQLAlchemy, Jinja2, Google Apps Script APIs, Docker, HTML/CSS

LANCERHACKS | CO-PRESIDENT + HACKATHON OUTREACH LEAD ORGANIZER

May 2016 – May 2018 | Mountain View, CA

- Developed weekly curriculum (iOS development, HTML/CSS), workshops, and projects for 50+ club members
- In 2018, coordinated outreach with sponsors and school administration for hackathon with 100+ attendees
- In 2017, developed problem packet and solutions for competitive programming competition for 80+ contestants

SOFTWARE PROJECTS

GMTRANSIT | NATIONWIDE PUBLIC BUS ROUTING SYSTEM

End-to-end navigation system to streamline public bus transit, where users can view current bus locations and live ETA data. Built in Python + JavaScript with Flask, Google Cloud Datastore, Google Maps API

SFSWIMMING | GENERAL WEBSITE FOR SWIMMING TEAM

Created website portal for Saint Francis High School's Mens/Womens Swimming teams. Complete with forms, interactive charts, tables, and log-in system. Built with Flask, MongoDB, Jinja2, and Charts.js

ENDLESS HIKER | PROCEDURALLY GENERATED ARTIFICIAL WORLDS

Using LWJGL (Java Graphics Library), developed application that generated virtual procedurally-generated worlds. Worked on noise function generation and graphics textures/shaders.

DISCO | IOS APP FOR LIVE COLLABORATIVE SPOTIFY PLAYLISTS

Built at HSHacks 2017. Wrote Node.js API backend that recieved playlist request calls from iOS app