

Nishan D'Souza

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Education

University of California Berkeley, Computer Science Major

Class of 2022

CS Major with intended Geospatial Information Sciences and Technology (GIST) Minor

- **Cumulative GPA:** 3.82
- **Coursework:** Databases, Computer Architecture, Data Structures, Structuring Computer Programs, Discrete Math and Probability, Introduction to Electrical Engineering
- **Organizations:** Open Computing Facility, Berke1337 (Cybersecurity)

Experience

LookingBus

Palo Alto, CA

Software Engineering Intern

May 2019 - Aug 2019

- Architected CAD (Computer Aided Dispatch) system in JavaScript that serves 25000 monthly trips
- Revamped comprehensive testing suite that asynchronously tested backend API services in Python
- Streamlined logging and admin services with feature-rich web portals, handling 10000+ daily requests
- Designed load-balancing server for backend services in GCP + REST endpoints for Android app calls
- Used Python, Java, JavaScript with Flask, Google Cloud Platform services

UC Berkeley Hearst Lab

Berkeley, CA

Software Intern

May 2017 - Sep 2017

- Developed web platform for instructors and researchers for creation of surveys/quizzes and results
- Used by Professor Marti Hearst for graduate dataviz course at UC Berkeley's School of Information
- Used Python, SQLAlchemy, Jinja2, Google Apps Script APIs, Docker, HTML/CSS

SFHacks

Mountain View, CA

Co-President and Lead of Hackathon Outreach

May 2016 - May 2018

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

Projects

- **GMTransit — Nationwide Public Bus Routing System:** End-to-end navigation system to streamline bus transit, with bus locations and live ETA data. Built in Python + JavaScript with Flask, GCP Datastore, Google Maps API
- **SFSwimming — General Portal for Swimming Team:** Built for Saint Francis High Schools 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.
- **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

Skills

- **Languages:** Python, Java, JavaScript SQL, C, Swift, HTML/CSS, R, Shell Scripting
- **Frameworks:** Flask, Django, Google Cloud Platform, Docker, Pandas, Git, NumPy, LAMP Stack, MEAN Stack
- **Areas of Interest:** Backend/Full Stack Development, Cloud/Distributed Computing, Data Engineering, Security
- **Online Coursework:** Princeton Algorithms I and II, Stanford CS193 - Swift/iOS, Johns Hopkins - R Programming