NITISH SAHNI

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Education

UC Berkeley, California — Expected June 2022

Bachelor of Science in ***Electrical Engineering and Computer Science***

Relevant Courses: CS 61B: *Data Structures and Algorithms*, CS 61A: *Structure and Interpretation of Computer Programs*, EECS 16A: *Designing Information Devices and Systems I*, MATH 53: *Multivariable Calculus*, STAT W21: *Statistics and Probability for Business*, CS 70: *Discrete Mathematics and Probability Theory*, CS 188: *Intro to AI*

Cumulative GPA: **3.53**

High School: ACT: 35/36 | IB Diploma Program: 42/45 | Yale Young Global Scholars (FMS program) | Pramerica SOCA: Winner

Relevant Experience

Full Stack Developer | **WannaGo Cloud,** Dubai, UAE — August 2020 - Present

- Constructed WGC's core on **Django**, deploying it on an **Ubuntu** droplet with **mod_wsgi** and an **Apache HTTP Server**
- Developed a pricing-calculator application for their the BaaS, IaaS and DRaaS products, using **Pandas** for calculations and **Bootstrap** for the front-end after pipelining data from Excel-based sources to a **SQLite3** database
- Automated the previously manual lead-generation process: generated the PDF document that included the calculated price and T&C via **ReportLab**; mailed the PDF to the customer, partner, and WGC's sales team with **Sendgrid's SMTP API**; created the Slack-channel with the three parties through the **Slack API**

Data Science Intern | **INDwealth,** Gurugram, India — June 2020 - August 2020

- Designed and created a new, **modular** engine for all data-science microservices using **Flask**, **SQLAlchemy**, and **New Relic** with **database pooling**, leading to a ∼**40%** greater deployment speed and ∼**30%** reduced runtime of each service
- Experimented with **K-means** and **DBSCAN clustering** to group app users by features, such as financial profiles and app-activity, hyper-personalizing each cluster's experience with relevant advisory; reduced average notification dismissal by ∼**25%**
- Built a model as part of the 'Dynamic-Asset-Allocation' microservice that delivers investment recommendations for users based on their risk-profiles, current allocation of funds and macroeconomic and sectoral indicators
- Proposed an **ETL + CDC** design that utilizes **Debezium** and **Kafka** for data-warehousing as an alternative to AWS Glue

Software Engineering Intern | **Kamadhenu Technology,** New Delhi, India — May 2019 – July 2019

- Developed the Post Booking Fare Support product with a team to determine a booking's airline refund or cancellation charges
- Systematized the price applicability rules put forth by **GDS systems** such as Amadeus, Sabre and Travelport
- Utilized **Java** to calculate the amount per PNR, categorizing the outputs from the NLP model; achieved >**95%** accuracy

Projects and Leadership

Co-Founder | **Edu-Vantage.co** — June 2020 - Present

- Built a platform ground-up using **Django**, **JavaScript**, and **Bootstrap**, which connects high school students in India with student-mentors at top universities to help guide them through the A-Z of the US and UK college application process
- Facilitated the mentorship of 20 students across 5 cities as of August 2020, earning approximately **USD 4,000** in total revenue

Secretary | **Alpha Delta Phi International Fraternity** — April 2020 – Present

- Summarized key decisions regarding philanthropy activities, fundraising events, and new member recruitment
- Submitted chapter news to the Alpha Delta Phi Headquarters for inclusion in their upcoming publications

Backend Developer | **Pandemap (IBM Call for Code)** — May 2020 - June 2020

- Launched an app in collaboration with 4 others that promotes social distancing amongst Berkeley students by providing crowding information about places on campus via a combination of CCTV and location streams
- Designed the backend architecture with **PostgreSQL** and **Django** and integrated the React front-end with a **REST framework**
- Created the crowd-counting models on **IBM Watson**, adding a **Twilio API** for alerts; achieved ∼**97%** testing accuracy

Personal Project | **Lines of Action (CS 61B: Data Structures and Algorithms)** — April 2020 - May 2020

- Developed the Lines of Action board game in **Java** from concept stage to a serviceable product with a **GUI**
- Implemented an AI based on **alpha-beta pruning** with a **heuristic** and minimax algorithm to beat a human within ∼**60** moves

Skills, Languages, and Interests

Technical Skills: Python, Java, SQL, R, Lisp, JavaScript, HTML, CSS, Git, Unix, and LaTeX
Frameworks / Libraries: Django, Flask, Pandas, Scikit-Learn, PyTorch, Apache HTTP Server | Artificial Intelligence A-Z (Udemy)
Natural Languages: English and Hindi
Interests: Drumming, Yoga, Golf, College Counselling, Blockchain, South Park