

Aparimeya Taneja

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EDUCATION

Duke University

Bachelor of Science in Computer Science

Expected May 2022

Durham, NC

WORK EXPERIENCE AND FREELANCE

StudentSide

July 2020 - September 2020

Backend Developer

Remote

- Developed **Python** based **GCP Cloud Functions** as **REST APIs** with **JWT** authentication to be used by the frontend. This allowed for secure modular bookings to a **PostgreSQL AWS D3 Instance**.
- Configured a **JAM-stack** architecture for the deployment by hosting the static **React** site on **Firebase Hosting** **CDN**, which improved load times by **50%**.

ESSI Integrated Technologies

June 2019 - July 2019

UI/UX Designer and Software Engineering Intern

New Delhi, India

- Redesigned and rebuilt an outdated UI in **Vue** with support for mobile and accessibility, and a focus on intuitive layouts and better UX. This **increased productivity** while modernizing and improving design style.
- Contributed to building a **NodeJS** server and a **MySQL** database to record data on realtime locations of vehicles and routes for the National Defence College.

Humblef00ls

January 2017 - Present

Freelance Graphic Designer and Web Dev

- Founded and manage my own online designer/artist brand online (@humblef00ls).
- Design merchandise and branding guides for organisations and individuals (logos, merchandise & commissions)

FEATURED PROJECTS

StockHub - (stockhub.app)

June 2020 - Present

Founder and Lead Developer

New Delhi, India

- Single handedly created a web app which tracks daily Tweets and Reddit posts for about **8000 US securities**, and options data for **535 securities** every **5 minutes**. This free analysis tool helps investors find short term trends.
- Developed **Python** based **GCP Cloud Functions** as the backend to collect and store all data to **Firebase RTDB** and conduct **NLP** on all posts/tweets to generate an average sentiment score for each of the **8000 stocks**. This allowed for scalability to about **300,000 data points daily** in my data pipeline, while costing only **\$4/month**.
- Built and deployed a **Sapper PWA** on **Firebase Hosting** and **SSR** with **Firebase Functions** as the frontend . This made for a high quality mobile experience, and reduced load sizes to **2%** with **caching**.
- Leveraged **Google Analytics** and observed **1000+ weekly sessions**. Added custom events for future research.

Intel ISEF & IRIS National Fair

December 2016 - May 2017

International Science Fair, Innovative Research

Los Angeles, CA

- Represented India internationally, and was awarded **3rd place in the world** among **800 participants** in my project category at the **2017 Intel ISEF**. Developed a **MWCNT 2-phase electrode**.
- Conducted original research in **IIT Delhi's** lab for 3 weeks, and generated **2400+ data points** for use in my research paper.

SKILLS AND INTERESTS

Languages: Java, C++, Python, Scheme, JavaScript, HTML5, CSS, SQL.

Technologies: NodeJS, Docker, GCP, Svelte/Sapper, CF Workers, Vue, Photoshop, Illustrator, Adobe XD.

Coursework: Systems Architecture, Algorithm Design, Databases, DSA, Functional Programming.

Interests: VR, Tennis, Gaming, EDM, G-Eazy, Sigma Alpha Epsilon Fraternity (ΣAE).