Brahmnoor Chawla

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Education

Drexel University *May. 2021*
B.S. in Computer Science (Honors) GPA: 4.00/4.00

Princeton University *January 2019 - June 2019*
Exchange - B.S in Computer Science GPA: 4.00/4.00

- Relevant coursework: Algorithms, Theory of Computation (Grad), Data Structures, Systems Programming, Software Architecture, Functional Programming, Systems Architecture, Operating Systems

Work Experience

Google *June 2020 - September 2020*
Incoming Software Engineering Intern - Google Photos Mountain View, CA

- Will be working with the Machine Intelligence team to implement machine learning models to accurately predict dates of images with corrupted metadata using Google Maps image data.

Nuro *September 2020 - January 2021*
Incoming Software Engineering Intern - Infrastructure Mountain View, CA

- Will be working with the infrastructure team at Nuro's Level 5 autonomous vehicles division.

Google *June 2019 - September 2019*
Software Engineering Intern - YouTube Ads Mountain View, CA

- Built an internal dashboard for YouTube's ads team to track data backfill tasks for ads targeting, which **reduced time to run machine learning models by upto 91%**.
- Refactored the user data & profile pipeline by adding a new testing phase which reduced **computing resources from being wasted by upto 72 hours**.
- Worked with **C++** & **Spanner** for the data pipeline, and with **Typescript** & **Angular** for the internal dashboard.

Princeton University *March 2019 - May 2019*
Research Assistant at Human-Computer Interaction Lab Princeton, NJ

- Engaged in primary research by conducting user interviews, and helping organise hundreds of interview transcripts about **how social media applications are used in third world countries**.

The University of Hong Kong *March 2018 - May 2019*
Research Assistant & Teaching Assistant Hong Kong

- Designed web apps in React and Angular for 25,000 students. Taught CCST9003 and COMP1117, teaching introductory CS skills including sorting algorithms and data structures to 120 students.

Projects

- **loveLang** – DragonHacks Spring 2020 Winner - A **Google Chrome extension** that smartly replaces words on the websites you browse with words from a new language that you want to learn - so that you learn a new language as you browse the web. Built using **Google Translate API, Javascript, Express and MongoDB**.
- **Highlight Reel** – HackRU Spring 2019 Winner - Webapp that uses a **peak signal detection** algorithm to automatically pick out highlight moments in online livestreams based on the time-series of chat frequencies. Built using **Python & Javascript** and designed with **Material UI.**
- **Realtime Speech to Text** – Built a real-time self-correcting speech to text in-browser module on Node and SocketIO. Used by over 15,000 students in The University of Hong Kong.

Skills

Programming:	C++, Java, JavaScript, Haskell, Python
Web & Databases:	Node, Angular, React, SQL
Tools & Technologies:	Git, Vim, LaTeX

Awards

- **Dean's List '17, '18, '19** & Recipient of **HKU Alumni Prize 2019** *December 2019*
- **ACM-ICPC**, Honourable Mention - Regionals (China-Hong Kong) *October 2018*
- **International Olympiad in Informatics** - among the top 25 students (in India region) *January 2017*
- **Research Grant by Government of India**, Kishore Vaigyanik Protsahan Yojana *December 2016*