



Brahmnoor S Chawla

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 Brahmnoor |  Brahmnoor

EDUCATION

Princeton University, New Jersey, USA

Jan - June 2019

Semester Exchange, Computer Science

Relevant Coursework: Data Structures & Algorithms, Computer Organisation, Computer Networks, Graph Theory

The University of Hong Kong, Hong Kong

May 2021

Bachelor of Engineering, Computer Science

Cumulative GPA: 4.21 / 4.3 - Dean's Honours List

Relevant Coursework: Discrete Mathematics, **Functional Programming (Haskell)**, Calculus, Probability & Statistics, Full-stack Development (PHP, MySQL, Node, Express, Javascript), Linux Shell & Bash

EXPERIENCE

The University of Hong Kong, Hong Kong

Mar 2018 - Present

Research Assistant at TELI

github.com/brahmnoor/

- Developed a speech detection web app from ground up, using **Google Cloud Speech API** based on **NodeJS, Express & SocketIO**. Worked with web **AudioContext** to provide audio recording compatibility across multiple browsers.
- Worked extensively in multiple teams as a **software development engineer**, building reusable components from scratch to deployment, which are currently being used by over 28,000 students. Contributed to projects based on **Angular, Vue, and React**.

The University of Hong Kong, Hong Kong

Sept - Dec 2018

Teaching Assistant

- Worked as a teaching assistant for the courses **Everyday Computing & Internet** and **Computer Programming**, helping with over 150 students bi-weekly.
- Solved & set hard computer science problems in **Dynamic Programming, Graph Theory, Discrete Math and Advanced Data Structures**.

SmallMinds.Expert, Hong Kong

Jan - Mar 2018

Part-Time Machine Learning Intern

- Developed an app from scratch using **TensorFlow** to detect clothes in real time video stream from the camera of **Android & iOS** devices. Worked with **Python & Unity** for the implementation of the model.
- Helped improve the accuracy of the model by over **10%**, and improved user retention, and overall profit by over **15%**.

SELECTED ACHIEVEMENTS

- **HKU Foundation Scholarship (186,000HKD/year)** (Highest scholarship)
- **International Olympiad in Informatics** Training Camp (Among top 25 Students in India)
- **ACM-ICPC Honourable Mention** in two **regionals (China-Hong Kong)**
- Kishore Vaigyanik Protsahan Yojana Research Scholarship (Given by Indian Government to just 0.01% of students)
- **HKSAR Gov. Reaching Out Award**, to visit **Korea Advanced Institute of Science and Technology (KAIST)** for one month & undertake courses in CS

LANGUAGES & TOOLS

C++, Java, Javascript, Haskell, Python, PHP, HTML/CSS, Git, NodeJS, Express, ReactJS, ReactNative

SOCIETIES

Change the Code (Gender Inclusion club in STEM) Co-founder, Editor in Media Team at University, Vice-Captain Tennis Team, **Common Purpose Leadership** Development Program Alumni (held in Philippines over a month)