

# VIKRAM SINGH

## University of Pennsylvania

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📍 Hong Kong

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Freshman studying Mathematics & Computer Science. Looking for internship opportunities in Software Engineering and Data Science.

## EXPERIENCE

### Backend Developer

**Penn Labs** 🌐

📅 Feb 2021 –

📍 Philadelphia, PA

- Create software used by thousands of faculty and students at the University of Pennsylvania.
- Work on the Platform team, integrating all of PennLabs' products into one system.

### Data Scientist

#### Wharton Analytics Fellows

📅 Sep 2020 – Nov 2020

📍 Remote

- Worked with SaaS Healthcare company with the aim of reducing customer churn. Used machine learning techniques to create a churn prediction model and identify key indicators of churn.
- Independently built Flask API to productionize model & presented findings to company.

### Summer Intern

#### Rupifi

📅 Jun 2020 – Jul 2020

📍 Remote

- Studied the API documentation of Fintech companies to find trends in the types of services offered, and the tools provided to allow for easy integration.

## PROJECTS

### FM Analytics



Python

Django

Web Dev

- Web-app that allows players of the Football Manager (FM) video-game series to upload their game data and have it stored and analysed.
- Deployed on Heroku

### Web Blog



Python

Django

Web Dev

- Basic blog application that allows for CRUD operations on blog posts and handles user authentication

### Minesweeper



Java

Swing

- Implementation of the traditional Minesweeper game using the Java Swing GUI library. Implements the Model-View-Controller GUI structure, File I/O and the recursive flood-fill algorithm.

### Coronavirus Tracker



Python

Web Scraping

- Script that scrapes Worldometer's Coronavirus data everyday and sends an e-mail with an update.

## SKILLS

Python

Data Analysis

Pandas

Django

Numpy

Scikit-learn

Java

Swing

JavaScript

LaTeX

OCaml

Git

Leadership

Public Speaking / Debate

Adaptability

Commitment

Integrity

## EDUCATION

### Bachelor of Arts

#### University of Pennsylvania

📅 2020 –

First-semester GPA: 4.0/4.0

- Intending to major in Mathematics & Computer Science
- Relevant Coursework (including Spring 2021):

Programming Techniques I-II

Hon. Calculus II-III

Maths of Computer Science

Probability

### IB Diploma

#### German Swiss International School

📅 2011 – 2020

43/45

- Higher-Level subjects: Mathematics, Economics, Physics
- ACT: 36/36

## ACTIVITIES

- Deputy Vice-President, Undergraduate Statistics Society
- Head Student and Head of Student Council, German Swiss International School
- Semi-finalist or better at six debate tournaments across Asia, Top 10 speaker at five tournaments.
- High-school Varsity Tennis Team Captain, Top 50 ranked junior in Hong Kong

## HOBBIES

- Rock music
- Soccer & Tennis
- Global Affairs