

VIKRAM SINGH

University of Pennsylvania

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📍 Philadelphia

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Sophomore studying Computer Science. Looking for internship opportunities in Software Engineering.

EXPERIENCE

Summer Researcher

UPenn Department of Computer Science

📅 Jun 2021 – Aug 2021

📍 Philadelphia, PA

- Worked with the DeepSpec project. Used the Coq Proof Assistant to specify and verify the Haskell IntMap data structure using the hs-to-coq tool developed by DeepSpec.

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 and creating internal tools.

Data Scientist

Wharton Analytics Fellows

📅 Sep 2020 – Nov 2020

📍 Remote

- Worked with SaaS Healthcare company to reduce customer churn. Used machine learning techniques to create a churn prediction model and identify key indicators of churn. Built Flask API to productionize model.

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

pgnsplit



Python

CLI

File IO

- Python package that converts a single Chess PGN file into a folder of PGN files, each containing an individual variation of the original file. Used for opening study. Published on PyPi.

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

Django

Java

Data Analysis

Data Structures & Algos

Coq

Swing

JavaScript

Git

LATEX

OCaml

Leadership

Public Speaking / Debate

Adaptability

Commitment

Integrity

EDUCATION

Bachelor of Science in Engineering

University of Pennsylvania

📅 2020 –

GPA: 3.94/4.0

- Majoring in Computer Science

- Relevant Coursework:

- Programming Techniques, Data Structures & Algos, Cloud Computing, Computability Theory, Computer Systems
- Hon. Calculus II-III, Discrete Math, Linear Algebra

IB Diploma

German Swiss International School, HK

📅 2011 – 2020

43/45

- 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

- Chess

- Soccer, Tennis & Formula 1