

VIKRAM SINGH

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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

- Working with the DeepSpec project and Prof. Weirich. Using the Coq Proof Assistant to verify the Haskell IntMap data structure.

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.

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

Data Analysis

Pandas

Django

Numpy

Scikit-learn

Java

Swing

JavaScript

LATEX

OCaml

Git

Leadership

Public Speaking / Debate

Adaptability

Commitment

Integrity

EDUCATION

Bachelor of Science in Engineering

University of Pennsylvania

2020 –

GPA: 3.9/4.0

- Majoring in Computer Science
- Relevant Coursework:

Programming Techniques

Data Structures & Algos

Hon. Calculus II-III

Maths of Computer Science

IB Diploma

German Swiss International School, HK

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

- Chess

- Soccer & Tennis