Smail Barkouch

A high school student seeking to gain experience in Computer Science in order to pursue a career in Software Engineering.

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EXPERIENCE

Lockbook, Jersey City, New Jersey — *Intern*

July 2019 - PRESENT

- Developed the android client in Kotlin
- Contributed to the Rust backend
- Contributed to the server api written in Rust
- Created CI/CD infrastructure with Docker, Github Actions, and tests across the android, server, and core source codes

Bucket & Bay, Jersey City, New Jersey — *Food Service Worker*

June 2019 - March 2020

- Created and served various caffeinated drinks and gelato
- Managed the cash register

EDUCATION

Mcnair Academic High School, Jersey City, New Jersey — *High School Degree*

September 2017 - June 2021

- 4.0 GPA
- AP Score of 5 on AP Computer Science A

KEY PROJECTS

COVID CNN

An open source convolutional neural network that detects COVID-19 and Pneumonia using x-ray images of lungs. Libraries used include tensorflow, cv2, numpy and pickle.

Environment Watch

An open source mobile application that crowdsources populations of animals and uses a neural network to verify submissions. It provides a meaningful UI, allowing users to view submitted photos, location of each animal spotting, and a way to login between devices to save your data.

Cellular Automata

An open source simulator that has applications in physics, theoretical biology, and microstructure modeling. Users are able to customize the parameters of the simulation to create specific Automatons, like Conway's Game of Life.

SKILLS

Web Development
- HTML, CSS, Javascript, Bootstrap, and React

Back-End Languages
- Kotlin, Rust, Python, Scala, Java, and SQL

Version Control & CI/CD
- Git
- Github Actions & Docker

EXTRACURRICULARS

Robotics (2019-2020)

Hackademic: programming club where students competed in coding challenges by Google. (2018-2019)

New York Road Runners: nonprofit that inspires people to run by hosting running events at local parks. (2019)

Indoor Track (2017-2020)

Outdoor Track (2017-2020)

Cross Country (2017-2020)

REFERENCES

Parth Metrotha - Software Engineer
parth@mehrotra.me
Raayan Pillai - Software Engineer
raayan@raayanpillai.com
Travis Vanderstad - Software Engineer
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