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## **Education**

Rutgers University Sept. 2017 - May. 2021

B.S. IN COMPUTER SCIENCE

New Brunswick, N.J.

 Relevant Coursework: Operating Systems, Algorithms, Internet Technology, Introduction to Artificial Intelligence (Graduate), Brain Inspired Computing (Graduate), Deep Learning, Graph Theory, Systems Programming, Discrete Mathematics and Probability, Differential Equations

# Experience\_

#### **Cardinal Capital Management**

Nov 2022 - July 2023

SOFTWARE DEVELOPER

- Collaborated with traders to build and optimize features/improvements for the prop shop's internal systems to help traders better execute their fundamental or automated strategies
- · Some work includes: building reports for EOD high frequency trade analysis, and rewriting internal system for accepting/persisting floor trades
- Primarily work with Java, Junit, Python, General Data Science libraries (Pandas, plotly, etc) and C++ here and there

**BNY Mellon** Aug 2021 - Oct 2022

SOFTWARE ENGINEER - INFRASTRUCTURE

- Worked on the Kafka Dev team to deploy Apache Kafka on an internal infrastructure as a service platform which automatically handles tasks such as managing Zookeeper clusters and allowing teams to easily deploy applications for both internal and external services
- Built and maintained new features while aiding in a highly reliable platform to help deploy applications capable of handling millions of dollars
- Worked with Apache Kafka, Java, Ansible, Junit, Cucumber/Gherkin, Bash Scripting as well as other frameworks and technologies

## **Rutgers University - Teaching Assistant and I-lab Assistant**

May 2020 - May 2021 (TA) Sept. 2019 - May 2021 (I-Lab)

TEACHING ASSISTANT AND I-LAB ASSISTANT

- As a TA, I taught grad students the fundamentals of data science in **Python** and how to use libraries like **Matplotlib**, **Pandas** and **Numpy**
- · As I-Lab assistant I would aid and teach students in a myriad of topics. Some include: Algorithms, Operating Systems, Artificial Intelligence

**LEFTE Lab** Jul. 2020 - Sept. 2020

RESEARCH ASSISTANT

- · Designed implemented and optimized concurrent as well as asynchronous image processing for CV driven drone navigation
- Used Python, and OpenCV, and with threading and asyncio libraries

Bromberg Lab Apr. 2019 - Oct. 2019

RESEARCH ASSISTANT

- Developed Openstack managers for infrastructure in local and cloud compute clusters
- · Implemented data cleaning scripts that help process genomic data and managed MySQL databases for genomic and proteomic data
- · Worked with Python, Docker, Openstack, Javascript, Laravel and MySQL

## Skills

**Programming** Java, Python, C, C++

Frameworks/Libraries General Data Science Libraries (Numpy, Pandas, etc), Plotly, MySQL

**Technologies** Git, Docker, Linux (CentOS, Ubuntu), Multithreading

# **Projects**

#### **BERT-CNN-Toxic-Speech-Classifier**

Dec. 2020

REPO: SHYAMP99/BERT-CNN-TOXIC-SPEECH-CLASSIFIER

Group

- Employed Google's Bidirectional Encoder Transformation for Transformers (BERT) architecture in conjunction with a Convolutional Neural Network to classify online comments via 6 toxic labels: Toxic, Severe Toxic, Obscene, Threat, Insult and Identity Hate
- The model was trained using a 159.571 datapoint dataset and achieved >93% ROC-AUC scores on all 6 labels
- Built using: Python, Pytorch (with Cuda), Hugging Face, Plotly, General Data Science Libraries (numpy, pandas, sklearn, etc.)

Rust Ping Sept. 2020

REPO: SHYAMP99/PING-IN-RUST

00pt. 2020

• A ping client that takes an IPv4/IPv6 address or URL and sends an ICMP echo request to the respective location with the Rust standard library

#### **User Level Memory Management Simulator**

Apr. 2020 Partner

Repo: Shyamp99/Virtual-Memory

- Designed and implemented user level memory management with a Translation Lookaside Buffer using **C Standard Library**
- · Handles address translation from virtual to physical addresses, fragmentation in both virtual and physical memory and malloc/free operations