Shayon Banerjee

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Education

University of Waterloo

Bachelor of Computer Science Minor: Statistics Sep. 2015 - Apr 2020 | Waterloo, ON

Skills

Programming

Languages:

Python, Java, JavaScript, C++, C, C#, R, Scheme, Bash

Tools & Frameworks:

Django, Angular2, React, JQuery, Pandas, TensorFlow, Flask, Git, Selenium, Android, Linux

Database & Servers:

PostgreSQL, GCP, Kubernetes

Certificates

Machine Learning | Stanford

- Linear Regression
- Logistic Regression
- Octave & Matlab
- Neural Networks

IBM Blockchain | Coursera

- Smart Contract
- Bitcoin
- Fabric Development

Coursework

- Operating Systems
- Algorithms
- Compilers
- Functional Programming
- Sampling/Experimental Design
- Applied Probability

Experience

Correlation One Data Science & Software Engineering Co-op May 2019 - Present | New York, New York

Project to be determined

Correlation One Software Engineering Co-op Sept 2018 - Dec 2018 | New York, New York

- Built the **GCP Kubernetes infrastructure** for AI Games, a project reaching over 15,000 active users
- Created the foundation for running live competitions with Vue.js and Django, raising \$2 million in revenue
- Researched and implemented the **Glicko-2** rating system, requiring 70% less matches for accurate leaderboard placements
- Optimized PostgreSQL schema to reduce load and effectively query multi-million row data collection

IBM Security Software Developer Co-op

Jan 2018 - Apr 2018 | Ottawa, Ontario

- Developed solutions for event collection on IBM's SIEM product, QRadar
- Resolved 34 legacy platform defects shipped to 4,000 clients
- Primarily worked with Java, JSP, JavaScript, SQL, and Python

CAE Full-Stack Developer Co-op

May 2017 - Aug 2017 | Montreal, Quebec

• Worked extensively with **C#, Angular2, and the Azure Service Fabric** to create tools for data analysis on a 100 terabyte blob storage

MacroTech GmbH Software Developer (C++) Co-op

May 2016 - Aug 2016 | Freiburg, Germany

• Maintained interface modules for a high vacuum process controller

Projects

MyChauffeur | Python, TFLearn, AlexNet

- A self-driving CNN classifying frames to a certain direction of movement
- Model trained on 10 hours of gameplay, on an online car simulator

LawYourUp | Python, Flask, JavaScript

- Collaborated with a lawyer to create an application that optimizes the search for legal precedent
- Trained a model on 300,000 court cases using the Doc2Vec algorithm