Fuad Ali

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Experience

Software Engineering Intern Wealthsimple Toronto — Sept 2019 - Dec 2019
- Re-engineered backend services to **increase speed** and **reliability** of deposits and withdrawals using **Ruby on Rails**
- Implemented filtering algorithm in Java to sort and visualize transactions between financial institutions

Data Scientist Intern Office of the Director of National Intelligence Washington, DC — Aug 2019 - Apr 2020
- Researching **data compression techniques** for high-volume, encrypted DNA data

Software Development Engineer Intern Publicis Sapient Toronto — June - Aug 2019
- Developed a **machine learning** powered chatbot by employing K-Means Clustering on click-stream data
- Coded responsive, location based front-end component seen by **1.5 million** users
- Analyzed the performance of $500 million+ eCommerce site to identify bottlenecks, resulting in faster load times

Web Developer Chow-Fraser Lab McMaster University — Sept - Dec 2018
- Developed a site to **aggregate** and **analyze** data from conservation regions across Canada to enable users to self-report chlorophyll levels in natural water reserves
- Visualized data using **D3.js** to inform research into water quality, resulting in identification of key conservation zones

Software Engineer Intern Pickup Rideshare Hamilton — Apr - Aug 2018
- Architected a **matching algorithm** (Gale-Shapley) to match riders with available drivers
- Engineered a progressive web app using **React**, redesigned the home page to increase customer retention by **20%**

Multi-Organ Transplant Researcher Toronto General Hospital Toronto — May - Aug 2017
- Developed a **machine learning algorithm** in Python that uses **support vector machines** to classify liver disease, resulting in early diagnosis without biopsy or invasive procedures, using a dataset of eleven **clinical features**
- Trained and **validated** machine learning models by normalizing and cleaning patient data
- **First author** on Meta-Analysis published in the Canadian Liver Journal **bit.ly/nashgen**

Education

B.Eng, Electrical & Biomedical Engineering (Co-op) McMaster University — Expected Apr 2021
- **Deans Honor List** (2016-2018), Honors Entrance Scholarship (**$2000**), **3.4/4.0** GPA
- Relevant courses: **Data Structures and Algorithms**, Discrete Math, Statistics, Vector Calculus, Molecular Biology

Skills

Languages: Python, Java, C, C++, JavaScript, Swift, MATLAB, Assembly, HTML/CSS, SQL
Tools and Frameworks: Pandas, Bootstrap, TensorFlow, React, Firebase, Node.JS, Android Studio, Git/Version Control

Projects

Unmask Personal Project — Aug 2019
- Developed a computer vision application using Ruby on Rails to analyze media sentiment based on pictures of faces
- Trained a **facial recognition model** using **OpenCV** on Amazon Web Services and deployed on the cloud

Strive MedHacks bit.ly/striveJHU — Sept 2018
- **2nd of 200+** teams at MedHacks, Johns Hopkins University
- Utilized computer vision (**Google Vision API**) to extract nutritional info from user uploaded pictures of food, allowing users to track their calories in a virtual food diary