

Ahmed Fuad Ali

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TECHNICAL SKILLS

Languages

Java
Swift
Python
C/C++
MATLAB
JavaScript
HTML/CSS
Verilog/HDL
Bash Scripting

Tools & Frameworks

Flask
React
Plot.ly
jQuery
XCode
Firebase
Node.JS
Bootstrap
Git/GitHub
Android Studio

Design

Adobe Photoshop
Adobe Lightroom
Microsoft Office
AutoDesk Inventor
PSPice

Communication

Intermediate French
Conversational Bengali

Certifications

Biohazardous Materials
Safety Training (UHN)

EXPERIENCE

Software Engineer - Pickup (www.pick-up.ca)

Apr 2018 - Present

- Pickup is a ride-share startup meant to connect drivers and university students commuting to school
- Creating an interactive and dynamic **web application** to match passengers with drivers
- Implementing a **secure** automated payment system and internal messaging platform
- Building android and iOS applications written using **React Native**, pushing changes to real clients

Multi-Organ Transplant Student Researcher - Toronto General Hospital

May - Aug 2017

- Collaborated with a team to develop a **machine learning algorithm** to classify liver disease
- My work was **published** in the Canadian Liver Journal; A Meta Analysis of Genomic Data in NASH
- Identified problems in adherence & deployed a **mobile app** to remind patients to take medications
- Designed a social media campaign to increase organ donor rates; registered **50+** new donors

PROJECTS

WatchSafe - (www.watchingyour.tech), Hack the Valley II, University of Toronto

Feb 2018

- Utilized **computer vision** (SightEngine API) to scan videos and censor only inappropriate scenes
- Designed algorithm to map API data to video content, based on **client-specific** thresholds
- Graphed live scanning results using Plot.ly and Socket.io, deployed webpage using **AWS EC2**

readRelax - (bit.ly/readRelax), DeltaHacks IV, McMaster University

Jan 2018

- Built an application that allows clients to use their hand motion to turn pages in a virtual book
- Programmed an **algorithm** to translate hand motion into a representational vector via motion sensor
- Finalist (Top 6) of 63 teams, **First place** in the Xesto challenge, pitched app to 400+ students & judges

Y-Emote - (bit.ly/y-emote), YHacks 2017, Yale University

Dec 2017

- Developed an application for sentiment analysis of text using Node.JS and IBM Watson API
- Implemented **version control** to fix bugs and ensure a production-ready user interface
- **Finalist** for the Mirium-J Walter Thomson challenge to analyze emotions, presented app

EXTRACURRICULARS

Co-President - Biomedical Engineering Society, McMaster University

Mar 2018 - Present

- Head of a team of 15, meant to support the professional and social development of students
- Communicated with sponsors and professors to promote research seminars and industry nights

Rugby Development Intern - (bit.ly/rug18) Toronto Inner-City Rugby Foundation

May - Aug 2017

- Brought the sport of rugby to 32,000 youth in disadvantaged neighbourhoods across Toronto, an increase of **20%** compared with the previous year
- Collaborated with 40 other interns to organize 4 Rugby Festivals for **1600+** children

EDUCATION

B.Eng, Electrical and Biomedical Engineering (Co-op) - McMaster University

Expected 2020

- Honours Entrance Scholarship (**94%**), Deans Honour List (**3.7 GPA**)
- Relevant courses: Data Structures and Algorithms, Discrete Mathematics, Intro to Programming, Molecular Biology, Circuits