Ahmed Fuad Ali

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TECHNICAL SKILLS

Languages

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

Tools & Frameworks

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

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** (top 8) 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