Ahmed Fuad Ali

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TECHNICAL SKILLS

Languages

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

Tools & Frameworks

Flask
Plot.ly
jQuery
Bootstrap
Node.JS
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)

EXPERIENCES & PROJECTS

Multi-Organ Transplant Researcher (Co-op) - Toronto General Hospital   May - Aug 2017
- Collaborated with a team to develop a **machine learning algorithm** to classify liver disease
- 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
- My work was **published** in the Canadian Liver Journal; A Meta Analysis of Genomic Data in NASH

WatchSafe - Web app developed at Hack the Valley II, University of Toronto   Feb 2018
- Used **computer vision** (SightEngine API) to scan videos and only censor inappropriate sections
- Designed algorithm to map API data to video content, based on **client-specific** thresholds
- Graphed live scanning results using Plot.ly and Socket.io, and deployed webpage using **AWS EC2**

readRelax - Python app developed at DeltaHacks IV, McMaster University   Jan 2018
- Built an application that allows clients to use their hand motion to turn pages in a
- Developed an **algorithm** to translate hand motion into a representational vector via motion sensor
- Finalist (Top 6) of 63 teams, **Winner** of the Xesto challenge, pitched app to 400+ students & judges

Y-Emote - Web app developed at 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

HealthScan - Android app developed at UB Hacking 2017, University of Buffalo   Oct 2017
- Worked with a partner to develop an **android app** that scans info from Ontario Health Cards
- Used Google's Tesseract Library to efficiently extract key features like birthdate, card number & gender

EXTRACURRICULARS

Co-President - Biomedical Engineering Society   March 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

Youth Rugby Development Intern - 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