

Akif Manzoor

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SKILLS

LANGUAGES

JavaScript and TypeScript
Python
Java
HTML and CSS

FRAMEWORKS

React.js and React Native
Redux and GraphQL
Node.js and Express.js
Jest and Cypress

TECHNOLOGIES

Git and Github
Linux
MongoDB and SQL
Arduino

CONCEPTS

Object Oriented Programming
Full Stack Development
Mobile Development

EDUCATION

UNIVERSITY OF OTTAWA BASC IN COMPUTER ENGINEERING

Sept. 2015 - Apr. 2021

RELEVANT COURSES

Analysis and Design of UI
Programming Paradigms (Golang,
Scheme, Prolog)
Higher Layer Network Protocols
Full Stack Open 2020
JavaScript30
Web Programming Foundations

VOLUNTEERING

OTTAWA MISSION

Food Server - Present

DISCOVERY UNIVERSITY CANADA

Facilitator - 2018

UOTTAHACK

Mentor - 2018

Mentor - 2019

EXPERIENCE

ERICSSON SOFTWARE DEVELOPER

Sept. 2018 - Aug. 2019

- Received two "Act to Execute" awards for automating software loading process and reducing process from 8 hours to 10 minutes using **Python**
- Developed GUI using **Eel.js** and **HTML5** for developers to interact with software loading tool
- Created a **MongoDB** database to track troubleshooting steps performed by developers on prototype phones

TYTO ROBOTICS SOFTWARE DEVELOPER

May 2017 - Aug. 2017

- Migrated cross-platform app to **NW.js** framework before deprecation of Chrome Apps
- Optimized and doubled USB data communication rate from computer to dynamometer
- Resolved critical bugs to improve performance using **HTML**, **CSS**, **JavaScript** and **jQuery**

EXTRACURRICULAR

OTTABOTICS VICE PRESIDENT

Aug. 2017 - Feb. 2018

- Designed 3-week long recruitment project for 100+ recruits on a budget of \$500
- Organized and lead workshops in **Arduino**, **Git**, and **OpenCV** for 50+ people
- Worked with a team of 11 executives, managing 3 competition teams and 1 project team
- Trusted signer for Ottabotics bank account and assisted CFO in bank related activities

OTTABOTICS | CHARTWELLS PROJECT MANAGER | SOFTWARE DEVELOPER

Oct. 2016 - Aug. 2017

- Developed an Autonomous Recycling Machine (A.R.M) managing 15+ members on a \$5000 budget
- Developed and maintained scripts in **Python** with **OpenCV-Haar Cascades** and **Tensorflow** to detect soda cans and water bottles using a computer vision

PROJECTS

ACREEYE AGRICULTURE SURVEYING DRONE

- Working with 5 team members to develop an agriculture surveying drone for farmers
- Developed a dashboard for farmers using **React.js**, **Redux** and **firebase**

DICE FIESTA DRINKING GAME APP

- Working with team member to develop a drinking game app using **React Native**

MEALABS HOME AUTOMATION

- Automated blinds, door locks, and lights using **Arduino**
- Created back-end server to retrieve data from sensors using **Express.js** and **JavaScript**
- Created **Android** app using **Java** and **Retrofit** to retrieve data from back-end server

BRUYÈRE-SAINT VINCENT HOSPITAL AUTOMATIC BRAKING WHEELCHAIR

- Created a prototype to combat improper wheelchair use with 6+ members on a \$200 budget
- Designed circuit schematics and implemented using **Arduino**
- Developed code in **C/Arduino** to control servos and read pressure sensors data