





Mufeez Amjad

Software Engineering, University of Waterloo

mufeez.me 

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SKILLS

Languages: Python, C, C++, Java, Scala, VHDL, Swift, JavaScript, SQL, Sass, C#

Technologies: React, Node.js, AWS, Flask, GraphQL, Postgres, Express, Angular, React Native, MongoDB, Git

WORK EXPERIENCE

Software Engineer Intern – Ecommerce | KitchenMate

May 2019 – Aug 2019

- Reengineered the creation of printed labels using **S3 & Lambda**, halving server boot time and **processing data 78% faster**
- Devised a **graph search SQL** algorithm to aggregate the cost of ingredients, driving up to a **37% decrease in food costs**
- Spearheaded a product launch of halal dishes, growing weekly active users by approximately 2%
- Launched a referral marketing program using data persistence through LocalStorage, Angular, Node.js, and Sendgrid
- Created a meal recommendation system considering dietary preferences and past orders, **increasing daily orders by 8%**
- Pioneered the implementation of an OLED display for future iterations of the IoT cooker using Python *luma* and *Pillow*

Web Developer & Designer | Major Canadian Political Party

Oct 2017 – Jun 2018

- Developed a responsive website using HTML, CSS, and JavaScript for events and initiatives for local MP
- Increased event registration **conversion rate by 40%** through iterating over several designs and running A/B tests
- Designed graphics and copy for marketing campaigns with a **52% increase in engagement** compared to past posts

Freelance Graphic/Web Designer | MA Designs

Apr 2015 – Jul 2018

- Converted and **contracted 200+** medium-sized business clients for websites, UI/UX, branding, and product design
- Generated **\$18,000+ in revenue**, experiencing an average of 65% year on year growth over a span of 3 years
- Designed and published four approved Snapchat geofilters with a total of over **2 million views**

PROJECTS

Auxilium | Node.js, Python, React, Stellar Blockchain, AWS, MongoDB

Registered micro-financing for low income populations - **Winner at PennApps XX: Top 10 of 250+ Teams**

- Developed backend with **local persistence**, transaction storage on the blockchain, Twilio & **AWS Rekognition** integration
- Implemented core ATM functionalities including deposit and withdrawal using a Raspberry Pi 3 with hardware modules

Bubble Burst | Swift, Firebase

iOS Arcade game on the App Store - Published in 2019

- Scoped and developed an iOS game with accessibility features, gaining 10,000+ ad impressions through Google Admob
- Amassed over **1,100 downloads**, a **4.9 rating**, and over 40k impressions on the App Store with organic marketing

FightVR | C#, Java, Unity

Inexpensive Android VR Setup - **Best VR Hack at Redbull AdrenaLAN**

- Developed a sword fighting VR game using gyroscope data and **vector and quaternion mathematics**
- Created a server-client interface to transfer data between host device, Myo Armband, and Android phone using C#

Bubbly | C++, React, Redux

Programmable bubble wall display - **Top 10 Overall at HackThe6ix of 70+ teams**

- Built an Arduino microcontroller for controlling **solenoid air valves** through a **transistor switch board** over bluetooth
- Developed a React web app with **web bluetooth** functionality to control patterns and colors on the bubble wall

EDUCATION

University of Waterloo – Bachelor's of Software Engineering (B.SE.)

Sep 2018 – Present

Relevant Coursework: Sequential Programs, Optimization, Data Abstraction, Digital Computers, Programming Principles
Engineering Ambassador, 5+ Hackathons, StarterHacks Mentor, WATonomous Design Team, Badminton, MSA