

Muhammad Owais Bawany

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Technical Skills

Programming/Scripting Languages: Java, Python, R, SQL, Prolog, LISP, HTML, CSS, JS, PHP, Objective C
Technologies/Environment: Shell Script (Bash), Git, PostgreSQL, Flask, Vi(m), UML, JSON, Bootstrap, UNIX/Linux, MAC OS, Windows

Work Experience

Software Developer Intern:

May 2017 – August 2017

LiveApp-SiliconW Inc., Kitchener, Ontario

- Developed websites, android and iOS applications with a team following client specification and wireframe
- Liaised with clients on requirements, project status, design options, proposals and technical issues
- Improved usability and stability of the existing portal by correcting errors and upgraded interfaces
- Suggested improvements to the mobile application development process and other software development practices

Assistant Maintenance Engineer:

May 2015 – August 2015

Linde Pakistan Ltd., Karachi, Pakistan

- Facilitated software engineers in devising and implementing new security policies to maintain confidentiality, integrity and availability of all records in the database
- Ensure IT security (Physical, logical, legal) aligns with Global IS strategy
- Migrated and trained 200 users from MS Exchange to Lotus Domino liaison with Global IS
- Evaluated functionalities of the information technology system according to business needs

Projects & Activities

Cancer Research (Ottawa General Hospital)

- Helped a University of Ottawa Faculty of Medicine as my final year Honours project
- Research involved finding possible ceRNA pairs by analyzing data of human genes
- Wrote a Python script to request files from the GDC server to perform different clustering and bi-clustering algorithms on the dataset
- Used a logistic regression model, as a supervised learning algorithm, to discriminate between validated ceRNA pairs and to find the unknown pairs

Ottawa Mayor's Cyber Challenge - CyberSci 2017 (2nd Prize): [CyberSci](#)

- Activities involved recon of a vulnerable computer network, break through the cyber defenses, take control of the systems, and devising security policies to defend against cyber-attacks

Resume Review Database System (Python & SQL): [GitHub](#)

- Created a database system to review students resume and companies using PostgreSQL
- Respected all required normal forms
- Used Python and the flask framework for the back-end

Calculator Flex and Bison (C): [GitHub](#)

- Implemented a calculator language using Flex and Bison that handles integers only
- Implemented a delimiter and an interpreter that executes statements during the parsing process

Education

Honours Bachelor of Science:

September 2014 – April 2018

University of Ottawa, Ottawa, Ontario

- Specialization in Computer Science (Management option).

Volunteer Experience

VP Information Technology - Model United Nations Association

September 2016 – January 2017

University of Ottawa, Ottawa, Ontario

- Elected to look after the clubs' website and android/iOS application. Adding new features and keeping information up-to date

VP Marketing – Ottawa Students' for Wishes (Make-A-Wish)

September 2014 – April 2017

University of Ottawa, Ottawa, Ontario

- Organized multiple events and fundraisers including bake sale and club night to raise funds for children with life threatening diseases