





Muhammad Owais Bawany

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TECHNICAL SKILLS

Programming/Scripting Languages: Java, Python, SQL, R, C++, HTML, CSS, JS, PHP, Objective C

Technologies/Environment: Shell Script (Bash), Git, PostgreSQL, Flask, Vi(m), AWS, JSON, Linux

RELEVANT WORK EXPERIENCE

Full Stack Developer

May 2018 – Present

Indellient Inc., Oakville, Ontario

- Build distributed/service oriented/micro-service-style and cloud-based solutions (AWS) using Java (Spring)
- Handle terabytes of client data growing at an exponential rate using Apache Hive and Hadoop, Presto query engine, PostgreSQL and Elasticsearch to ensure maximum throughput and performance
- Design and develop Java Restful web service, which communicates with the Postgres database in the back-end and successfully returns JSON format data to AngularJS framework using Spring, Jersey, JAX-RS & Angular6
- Utilize Agile Methodology for iterative development of applications including sprint planning and daily scrum to manage ongoing tasks
- Participate in all phases of the Software Development Life Cycle to gather requirements, design applications, implement the design, testing and maintenance

Software Developer Intern

May 2017 – Aug 2017

LiveApp-SiliconW Inc., Kitchener, Ontario

- Implemented the user interface for a web application optimized for mobile phones with HTML, CSS, JavaScript/jQuery
- Created a message center for the admin portal that enabled sending and viewing emails using a MySQL/phpMyAdmin database and PHP
- 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 upgrading interfaces

Assistant Maintenance Engineer

May 2015 – Aug 2015

Linde Pakistan Ltd., Karachi, Pakistan

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

PROJECTS & ACTIVITIES

Machine learning in Genomics Research - *Ottawa General Hospital* [Lab](#)

- Executed detailed analysis of gene expression by extracting and storing data using Data Science principles and applied Machine Learning algorithms such as Hierarchical/K-means clustering using Python to identify genes competing with Cancer suppressing genes.

Tweet Information Retrieval System (Lucene Java, Python): [Github](#)

- Implemented Preprocessing functions for tokenization and stop-word removal and used Porters algorithm for stemming.
- Built an inverted index for fast access with an entry for each word in the vocabulary using hash maps.

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

- Reckoned a vulnerable computer network, broke through the cyber defenses, took control of the systems, and devised security policies to defend against cyber-attacks

EDUCATION

Honours Bachelor of Science: Specialization in Computer Science (Management option)

University of Ottawa, Ottawa, Ontario

Sept 2014 – Apr 2018

- Distinguished member of the Dean's Honor List 2018 for Academic Excellence

VOLUNTEER EXPERIENCE

- VP Information Technology - Model United Nations Association
- VP Marketing – Ottawa Students' for Wishes (Make-A-Wish)

Sept 2016 – Jan 2017

Sept 2014 – Apr 2017