FAHAD QAYYUM | http://fahadq.ca | https://github.com/fahadq123

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SKILLS

- **Software / Web Developer / Mentor & Tutor** with strong analytical and programming skills.
- **In-depth understanding** of Algorithms, Data structures, Object-Orientation, Operating systems, Software Design, Security, Testing and best practices.
- **Experienced in Languages** like Python, JS, JAVA, C, C++, PHP, Eiffel, SQL, NoSQL, HTML.
- **Worked with Frameworks** like Angular, Spring boot, Express.JS, jQuery, Bootstrap.
- **Expert in Tools** like Jira, Jenkins, Docker, CI/CD, Git Lab/Hub, Gradle, PCF, Swagger, Heroku, AWS, IntelliJ, VS code, Eclipse, Atom, Cloud 9.
- **Master in Databases** like MYSQL, Microsoft SQL Server, MongoDB, MongoDB Atlas.
- **Eager** to learn new ideas, enthusiastic and self-motivated.

EDUCATION

York university | Bachelors (Honours) **|** COMPUTER SCIENCE
- Intern of the Year Award 2020.
- John Stephenson computer science activity award.
- Certificate of Appreciation and Certificate of Recognition recipient.

Comsats University | Bachelors **|** Transferred Credits
- Comsats merit scholarship.
- Academic achievement award winner.

PROJECTS

E-commerce System | Using SEAN Stack **|** OCTOBER 2020
- Building an e-commerce single page app (SPA) using SQLite, Express, Angular, NodeJS stack.
- Client-side built using TCP & HTTP (Client/Server), Java Multithreading, Tomcat, Node, SQLite.
- Server-side built using Angular and communicating with microservices through a gateway.

Keywords: SQLite, SPA, Java, TCP, microservices, Angular, Client, Server, Network, NodeJS.

Twitter Data Analysis | Python Language **|** AUGUST 2020
- Listening to live tweets of interests from a particular area using Twitter API for analysis.
- Analyzing tweets using Apache Spark and stream processing pipeline using Docker.
- Performing sentiment analysis upon tweets and plotting real-time graphs to visualize results.

Keywords: Python, Apache Spark, Data Science, Real-time graphs, Docker, Tweets, API.

Online Dictionary | Using MEN Stack **|** JULY 2020
- Application build using MongoDB, Express, NodeJS, RESTful routes, and HTTP requests.
- Created using Bootstrap and EJS templates on the cloud platform and deployed on Heroku.
- Named in York university magazine for its usefulness and innovative design.

Keywords: MongoDB, Express, NodeJS, User Auth, Bootstrap, Heroku, Mongo Atlas, API, Live.

Patatap Clone | jQuery and JS **|** MAY 2020
- Generating beautiful, different, graphics and sounds with the press of every key.
- Graphics created using PaperJS and sounds using HowlerJS with jQuery and JavaScript.

Keywords: UI, jQuery, PaperJS, HowlerJS, JavaScript, Graphics, Animations, Sounds.

Block chaining | Python Language **|** APRIL 2020
- Chaining blocks with unique fingerprints using sha256 hash function to form a blockchain.
- Adding an extra layer of security i.e. Proof of work, to ensure a secure chain.
- Testing the chain with valid and fake transactions with appropriate error logging.

Keywords: Python, Hashing, Timestamp, Genesis Block, Testing, Proof of work.

WORK EXPERIENCE

FedEx Express | Programming Analyst | Internship | JANUARY 2020 – DECEMBER 2020
- Working on the delivery manager at FedEx headquarter under manager supervision.
- Building new microservices using tools and frameworks like Spring Boot, AngularJS, Java, Pivotal, Jenkins, and GitLab, to integrate it with the bigger system.

Walk with Web | Executive & Co-Founder **|** SEPTEMBER 2020 - PRESENT
- Corporation led by academicians and historians to digitalize humanities research project.

York University | Teaching Assistant | SEPTEMBER 2019 – AUGUST 2020
- Grading exams, programming assignments and creating course content.
- Running tutorials, solving exercise problems answering student questions.
- Supervising, helping and providing students with feedback.

York University | Digital & Website Research Assistant | SEP 2019 – OCTOBER 2020
- Working as a full-stack developer under the close supervision of the IT director.
- Created numerous amazing websites like fragmentosdamemoria.org, equianosworld.org, iptsa.org, freedomnarratives.org, afro-Louisiana (under progress).

VOLUNTEER EXPERIENCE

Excel Lassonde | Ninja Tutor **|** SEPTEMBER 2018 – APRIL 2020
- Tutored computer science and math courses to students needing help.

York international | Peer Supporter **|** AUGUST 2018 – DECEMBER 2019
- Arranging events for my 10 peers and familiarizing them with the campus and regulations.

Lassonde student government | Student Rep **|** JAN 2018 – APRIL 2018
- Representing first-year students and organizing events like movie nights and talent shows.

COURSE OVERVIEW

- Algorithm Design (**Completed, A+**)
- Operating Systems (**Completed, A**)
- Logic Computer Science (**Completed, A**)
- Big Data Analytics (**Completed, B+**)
- Software Design (**Completed, B+**)
- Artificial Intelligence (**Completed, B**)