Ashif Fahim

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PROFILE – SOFTWARE DEVELOPER

Recent graduate with a strong foundation in software engineering and experienced in object-oriented programming, testing and debugging code, and maintaining relational and non-relational databases. Exemplary verbal and written communicator who can clearly conveys ideas to clients and team members.

Core Competencies:	Front/Backend Development	Mobile/Web Development	Database Management
	Data Analysis/Machine Learning	Scripting and Automation	Embedded Software Development

TECHNICAL SKILLS

- **Software Development**: Python, Java, JavaScript, C, SQL, Git, CSS, HTML
- **Databases:** MySQL, MongoDB, Firebase, SQLite
- **Frameworks:** React, React Native, Node.js, Express.js, Django, Flask

EDUCATION

Bachelor of Electrical Engineering, Ryerson University

Toronto, ON, May 2020

Technical Courses:	Operating Systems	Object Oriented Analysis Design	Basics of Multimedia Systems
	Intelligent Systems	Computer Organization and Architecture	Algorithms and Data Structures
	Software Systems	Digital Computation and Programming	Digital Image Processing

PROFESSIONAL EXPERIENCE

Software Developer | CryptoTRX *Toronto, ON, January 2019 – August 2019*

- Implemented encryption algorithms (RSA, ECDSA) and hash-based databases (MerkleTree) to ensure secure cryptocurrency transactions and storage of confidential information
- Developed a mobile application that converts your local currency to a crypto token of your choice (available on Google Play store as CryptoConvert)
- Developed a cryptocurrency wallet mobile application that stores and exchanges currency between bank accounts, blockchain addresses and other user accounts
- **Software/Tools Utilized**: React Native, Node.js, Express.js, SQL, MySQL, JavaScript

SOFTWARE DEVELOPMENT PROJECTS

Priority Charging Management System for Electric Vehicles

- Created a practical proposal for real-time monitoring of charging stations for electric vehicles with a phone app controlling the charging rate and displaying results to user via Google Cloud
- Responsible for programming microcontrollers using C to control circuit components of charging stations
- Designed software on the charging port to enable communication between microcontrollers and the cloud

GUI-based Banking System

- Created an in-depth banking system with functionality similar to real-life banking using Java
- Implemented a graphical user interface using JavaFx and user login database with Google Firebase

Multimedia Processing Filters and Compression Algorithms

- Implemented image and video compression algorithms using JPEG and MPEG standards in Python
- Created a content-based image retrieval system to query and search for images from a database that resemble closest to a query image using a set of image descriptors