

# TASEEN WASEQ

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## EDUCATION

**Honours Bachelor of Computer Science**, Carleton University - 10.00 CGPA Sept. 2021 - April 2026

- Specializing in Management and Business Systems | Awarded: Entrance Scholarship of \$8000, Deans' Honour List
- Relevant Courses: Discrete Structures, Data Structures and Algorithms, Systems Programming, Intro to Python, Object-Oriented Programming (Java), Web Applications, Database Management Systems, Intro to Software Eng.

## WORK HISTORY

**Software Engineering Intern**, Ideabytes Inc. - Ottawa, ON Feb 2022 - Jan 2023

- Worked with team internationally providing newer insights into software improvement and development
- Implemented functionality and architecture refactoring for features including automatic translations for international shipment documents, automated PDF merging, creating end-to-end APIs connecting client and server side
- Improving time and memory efficiency of existing code using advanced data structures and algorithms
- Developed entire front end for customer Administration Portal, facilitating project and user management
- Responsible for software maintenance and support across the codebase for web applications handling 1000+ daily transactions; quickly delivering and efficiently written solutions for database and code related issues
- Drafted architecture and engineered multiple SQL tables and queries; properly integrating with existing databases
- Delivered numerous User Guides and technical documentation for existing applications and presented to clients

## PROJECTS

### TAWallet: Investment Hub

- Web application for retail investors track all of their market investments in one place
- Real-time price tracking for 2400+ companies through the implementation of the MarketStack's Stock API
- Allowing users to add buys/sells, check the performance and value of their individual stocks, and the entirety of their portfolio stored through the implementation of a MySQL database using JSON structure, export to .xlsx
- Integrated secure credential storage and thorough input, purchase, and sale validation

### Social Media SMS Update Bot

- Program gathering users YouTube, Instagram, and Twitter data and returning the info by text within 17 seconds
- Automated web scraping and form submission with Selenium, outgoing text message using Twilio API

### Digital Art Gallery

- Web application for artists to digitally showcase their artwork and network with others
- RESTful API design using Express.js framework, modular server-client communication through appropriate request and response handling, with an integrated MongoDB storing users, artwork, and sessions, via Mongoose schemas

### CS Lightwork: Programming YouTube Channel |

- Simplified videos teaching both the conceptual understanding, and the coding of algorithms with all source code available through GitHub, ranging from beginner to advanced concepts, lessons, and problems for 4000+ views

## EXTRACURRICULARS

### Lyft - Back-End Engineering Virtual Experience Program

- Completed new software architecture for vehicle component classes, Python code base refactoring, unit testing, and test-driven development

### Visa - Token Service Technology Virtual Experience Program

- Developing code confirming the validity of an incoming Visa transaction request, token authentication, and providing customer solutions on how Visa APIs can solve an array of cardholders' matters

## SKILLS

### Languages

Python, Java, PHP, C, C++, JavaScript, SQL, HTML/CSS | English, French, Bengali

### Frameworks / Tools

Git, Angular, Node.js, Express.js, Bootstrap, Selenium, MySQL, Mongoddb, RESTful API