

George Alex Mo

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Education

B.E. in Software Engineering

MCMASTER UNIVERSITY

Hamilton, ON

Graduated Apr. 2020

- **Notable Coursework:** Data Structures & Algorithms, Databases, Concurrent Programming, Operating Systems

Skills

Programming Languages Golang, C#, JavaScript, SQL, HTML, CSS, Ruby, Python, Java
Frameworks React/Native, Bootstrap, .NET, MSTest, NodeJS, Rails
Tools MySQL, Docker, Git, Kubernetes, Atlassian Series, JetBrains Series

Experience

Junior Software Engineer

TOOGOOD FINANCIAL SYSTEMS INC.

Toronto, Canada

May 2019 - Apr. 2020

- **Trading Software: QuarterBack (C#, MySQL)**
 - Enhanced software core logic and data flow, responsible for preliminary quality assurance and integration testing
 - Designed new MySQL schema to manage client information and update history through after update triggers
 - Updated existing schema to improve storage efficiency; reduced total space consumption by approximately 16%
 - Added unit tests to ensure functional equivalence for updated schema and correctness for new schema
 - Worked in an agile environment consisting of two-week sprints utilizing JIRA and Confluence
- **Trading Software UI Overhaul: Evolution (C#)**
 - Led a team of 3 and coordinated with design, QA, and management; responsible for the full delivery process
 - Refactored integration with existing UI software into a fresh alternative (Original: Syncfusion | Replacement: ComponentOne)
 - Refactored data structures and created proxy data structures to accommodate for new interface elements and other changes
 - Slashed administrative costs on software licensing by over \$10,000 per year

QA Engineer Intern

TOOGOOD FINANCIAL SYSTEMS INC.

Toronto, Canada

May 2018 - Aug. 2018

- **Automated Testing: Evolution (C#, MSTest)**
 - Individually rebuilt automated test suites using MSTest and led other co-op students working with unit and integration testing
 - Optimized various search algorithms and improved testing efficiency by 28% to meet speed requirements
 - Redrafted and updated the company training manual for testing automation; hosted onboarding sessions for new employees
 - Personally re-recruited by head of software department in following year under a full-time position

Projects

Social Network App

Sept. 2020 - Present

- **Mobile App: 'Emerald' (Golang, JavaScript, MySQL, React Native, AWS)**
 - Mobile service to promote communication in relationships and organize social activity within friend groups
 - Implemented responsive dynamic frontend with React Native for iOS & Android (Phone & Tablet)
 - Designed and implemented a multi micro-service backend server in Golang following RESTful design patterns
 - Designed and implemented backend MySQL database schema with low level constraints and triggers to ensure data integrity
 - Prevented undesired concurrent access to in-app currency service through mutual exclusion and database transactions

Online Photo Gallery

Jan. 2020 - Sept. 2020

- **Webservice: <http://www.wspicshare.com> (Golang, JavaScript, MySQL, Bootstrap, Docker)**
 - Online service dedicated for photographers to upload, edit, and share photos in an organized and effective manner
 - Implemented Bootstrap-based web frontend with various CSS webkit animations to improve visual experience
 - Implemented push notifications and automated emails to notify users when on signup and account changes
 - Implemented multiple backend micro-services in Golang using Amazon S3 for storage and Amazon Lambda for processing
 - Containerized web frontend and backend micro-services with Docker and hosted on AWS
 - Ensured information security with JWT, password encryption, designed against attacks such as SQL injections & DDoS