Elite Lu
McMaster Third Year Computer Science Student

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Education
McMaster University
Hamilton, Ontario
Computer Science Co-Op
Class of 2021-2025
Newmarket H.S
Newmarket, Ontario
AP Student
Graduated in 2021

Other Activities
McMaster Marching Band
Newmarket High Robotics Team Programmer
Newmarket High Badminton Team

Awards and Grades
McMaster University
3.90 GPA (4.0 Scale) for all years
Newmarket H.S
Calculus and Data Management Award (Grade 12)

Languages Proficiencies
English
Mandarin Chinese

Work Experience

Programmer Coop – Practice Perfect EMR May 2022 – August 2022

Programmed testing applications for senior programmers by developing APIs along with stability testing. This involved coding in Java with Gradle. Gradle was used for handling the web requests and for logging into the server. Java was used for building the GUI along with handing the user requests and responses.

General tests involved users selecting an API with the default variables loaded in through an auxiliary JSON file. Users can change the variables and retrieve the corresponding PDFs through the Gradle WebRequest dependency.

Stability tests were created via multithreading to simulate multiple users accessing the web servers. This simulation involved multiple concurrent users simultaneously logging into the web server and accessing the designated PDFs. Users can select a variable number of users, ranging from 5 to 50

The second application tested JSON returns. Different JSON tests included payments and client information along with additional stability tests for each returned JSON. Like the general tests application, this aided in providing information on the database and worked in tandem with a Pascal mainframe user application.

Badminton Instructor – Town of Newmarket September 2019 – March 2020

Taught children from the ages of 5 to 16 badminton. Rudimentary techniques such as serving, clearing, smashing, and netting were taught in an engaging way that allowed students to develop and enjoy the sport. Located at the Magna Center in Newmarket, a well-known public recreational facility.

Proficiencies/Technical Skills

Coding Languages
- Bash
- C
- C++
- C#
- Elm
- Java
- Haskell
- SQL
- Processing
- Python
- Latex
- Gradle

Software
- Visual Studio Code
- Eclipse
- NetBeans
- GitHub
- Jupyterhub
- GIT
- Android Studio Maker

Sample Assignments/Code

API, JSON, Stability Tester Application Practice Perfect EMR
- Used to test online APIs and if they could return a PDF
- Included additional features such as JSON printing
- Stability tests were created to test server stability and speeds when multiple users accessed the same API
- Easy and intuitive GUI front end for the user to easily test record errors

Derivatives Math Visualizer COMPSCI 1XD3
- A game that teaches users how to do derivatives in a fun and interactive way
- Displayed graphs of a function along with steps on determining derivative

Application demonstrations can be shown on request

References

Steve Presement | Practice Perfect EMR | steve@practiceperfectemr.com | (855) 508-4409

Christopher Anand | McMaster University | anandc@mcmaster.ca

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Kathleen Willins | Town of Newmarket | kwillins@newmarket.ca