Emile Li Tim Cheong

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EDUCATION

UNIVERSITY OF TORONTO
B.Sc. in COMPUTER SCIENCE
Software Engineering Stream
Sep 2018 – Present

LINKS

Portfolio://eltc29/portfolio/
LinkedIn://linkedin/emile-li/
Github://github.com/eltc29/

SKILLS

LANGUAGES
Java • Python • C • HTML • CSS
• JavaScript

FRAMEWORKS / LIBRARIES
Git • Subversion (SVN) • Linux/Bash
• jQuery • Ajax • REST API • Maven

METHODS / CONCEPTS
Agile Development Process
Waterfall, Iterative Model
Scrum Principles
Unit Testing with mock objects
Software Design Patterns:
Dependency Injection, Builder,
Publish-Subscribe, Iterator,
Decorator, Polymorphism
UI/UX Responsive Web Design

COURSEWORK

Calculus I, II
Discrete Mathematics
Intro to Probability
Intro to Computer Science I, II
Intro to Software Design
Intro to the Theory of Computation
Software Tools and Systems
Programming

ACHIEVEMENTS

2018 | Ranked 13th nationwide
Cambridge GCE A-Level exams
Mauritius Technical Stream

PROFILE

I am a very enthusiastic and motivated person, driven by technology. I really have a passion for programming and through that, I have honed my problem-solving skills by critically analyzing problems in a holistic way. I am also a good team player with adept communication skills, the willingness to learn new skills and adapt quickly to any new work environment.

PROJECTS

WEATHER TELLER (in HTML, CSS, JavaScript | link)
A Weather Forecast webapp that fetches data from a weather API . Gives weather information on any city in the world and also gives the user's current location's weather forecast.
- Developed good understanding of API calls using jQuery and Ajax and learned how to manipulate data in JSON format.
- Honed my skills in CSS, on how to create various responsive UI/UX by using different bootstraps libraries.

MOCK LINUX SHELL (in JAVA | link)
The Mock Java Shell acts like a basic version of the Linux shell and contains simple commands such as 'cp', 'mv', 'cat', 'mkdir', and 'ls'. The program also creates a mock File System on which the commands are executed.
- Gained extensive knowledge on object-oriented programming where concepts such as Polymorphism and Dependency injection are used.
- Improved knowledge of Unit-testing with mock objects using the Dependency injection pattern on the mock File System.

SERVER-CLIENT FILE TRANSFER (in C | link)
The program connects a server to a client via address sockets and allow for file transfer between them, files could be of any file extensions and sizes.
- Gained strong foundation in web programming by learning concepts such as addresses(IPv4), binding, port listening, and domains.
- Honed knowledge on forking, piping, and operations on file descriptors, which is essential to obtain good workflow between server and client.

IMAGE COMPRESSION PROGRAM (in C | link)
Program involves feeding an image using command line and the program shall output a new image that has been compressed.
- The Quad-Tree data structure was used as way to store all the image pixels and it has a fast node traversal.
- Improved knowledge on tree traversals, recursive algorithms, node allocation/deallocation, all while maintaining good memory management.

EXPERIENCE

SALES ASSOCIATE | CANADA'S WONDERLAND (VAUGHAN, ON)
May 2018 – Aug 2018
- Adept communication skills proven by clearly explaining product specifications that would make clients make the right choice of purchase.
- Excellent customer service proven by solving issues of unsatisfied customer, hence improving the company ratings.