MICHEL GEORGES NAJARIAN

COMPUTER ENGINEER – 3B

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mgnajarian.com

MichelGeorgesNajarian

Skills

LANGUAGES

- Java
- TypeScript
- JavaScript
- C++
- C
- HTML
- CSS
- PHP
- Perl
- Python

LIBRARIES/FRAMEWORKS

- Angular
- CoreUI
- KendoUI
- Spring
- Bootstrap
- jQuery

DATABASES AND THEIR TOOLS

- PostgreSQL
- MySQL
- Hibernate (Spring)

TOOLS

- RESTful APIs
- Docker
- Kubernetes
- CloverETL
- Postman
- Maven
- NodeJS
- Git

Education

UNIVERSITY OF WATERLOO
2016 - present

Candidate for Bachelor of Applied Sciences, Computer Engineering

RELEVANT COURSES

- Algorithms and Data Structures
- Systems Programming and Concurrency
- Compilers
- Embedded Microprocessor Systems
- Digital Computers
- Discrete Mathematics

Interests

- Programming
- Piano
- Reading
- Working out

Work Experience

International Financial Data Services Canada — Sept - Dec 2019

Architecture R&D Full-Stack Developer — **Toronto, Canada**

- Completed POCs using **Angular, Spring Boot, PostgreSQL** in **Kubernetes Containers**
- Sketched, built and maintained **backend**, **RESTful APIs** and **web portal**
- Designed the **database structure** and **auditing** keeping track of changes done
- Successfully **presented** the finished POCs to **shareholders** and valuable clients
- Used **CloverETL** and **JasperReports** to generate PDFs stored in a hosting service
- Updated and **improved** the POCs based on the feedback from shareholders

SITAONAIR — May – Dec 2017 AND May – Aug 2018

OSS/BSS team Full Stack Developer — **Montreal, Canada**

- Designed page with **HTML, JavaScript, Bootstrap**, giving a modern **UI**
- Refactored **PHP** backend of **web service**, reducing processing time by 50%
- Fixed **SQL injections** vulnerability, by using prepared statements
- Updated old web app using **JS** and **jQuery**, decreasing load times by 70%

Government of Canada - Health Canada — Jan – Apr 2019

Software Developer — **Ottawa, Canada**

- Converted **MATLAB** code into **C++**
- Simulated radiation by writing multiple **Fortran** simulators and analyzers
- Made a **user interface** which lets user choose the simulation parameters
- Used **Fortran** program to analyze and downscale cosmic rays result

Personal Project

BeautifyTvShowDirectory (Java + Maven) — GitHub Link

- Program goes through given folders and sub-folders recursively and renames files
- Use of **regex** to match the TV show name, the season and episode numbers
- Use of The Movie Database's **APIs** to get information (Episode title, show name)
- **OOP** with **classes** for TV Shows, seasons, episodes, **CLI options** parsing
- Very **modular CLI Options parsing**, can be exported and used on any project
- **Multithreaded** program by creating a new thread for each new TV show directory

mgnajarian.com (HTML + JavaScript + CSS) — GitHub Link

- Designed web page with **HTML, CSS** and **JavaScript** without any libraries
- **Mobile-friendly website** with hamburger menu and scroll to top features
- Different **CSS animations** available depending if on mobile or desktop site
- Pure **JavaScript**, **event listener** declarations which handle scroll to top and resize
- Website still in progress, further development required

ChangeMaker (C++) — GitHub Link

- Tells user combination of coins and bills to return with smallest amount of items
- Multiple **data structures** used, including double hashing, number sets
- Used **dynamic programming** to keep track of previously returned amounts
- Modified **Kruskal's algorithm** to make it work with sets of numbers instead of graphs
- Less probable to return bill or coin with low count vs more items with higher count