Geoffrey Meric

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Education

McGill University Montreal, Canada
Bachelor of Science in Computer Science, Minor in Finance *Sep. 2020 – May 2023 (expected)*

- GPA 4.00/4.00
- Judie Rimer merit scholarship recipient
- Relevant courses with grade achieved: MATH240 Discrete Structures (A), MATH222 Calculus 3 (A), MATH223 Linear Algebra (A) MATH203 Principles of Statistics I (A), COMP206 Introduction to Software Systems (A), COMP251 Algorithms and Data Structures (A), COMP273 Introduction to Computer Systems (A)

Seoul Foreign School - *International Baccalaureate* (final grade 42/45) August 2017 - May 2020

Technical Skills

Languages: Java, Python, C, JavaScript, HTML/CSS, Bash, R
Frameworks/tools: React, Node.js, Express, MongoDB, Git/GitHub, Visual Code Studio, Google Cloud Platform
Libraries: NumPy, Matplotlib, Chart.js, jQuery

Experience

Software Development Intern June 2021 – September 2021
Teqoya *Paris (remote)*

- Collaboratively developed full-stack data visualization web application using JavaScript, PHP and HTML/CSS to retrieve, process and display live air quality sensor data
- Utilized Chart.js library to display interactive data graphs and enable visual data comparison
- Implemented data analysis and downsampling capabilities in JavaScript, provided GUI streamlining improvements by implementing curve smoothing capabilities and axis uncluttering through smart data decimation
- Jointly delivered end product used by the company to test and demonstrate efficacy of air purification devices by gauging air quality improvements in school classrooms, ensuring air quality improvements (reducing micro-particle pollution and carbon dioxide contamination)

Projects

Full-Stack To-Do list web application | *JavaScript, Node.js, Express.js, MongoDB, Google APIs, HTML/CSS*

- Created full-stack to-do list web application with JavaScript, MongoDB, Express.js, Node.js and HTML/CSS
- Interfaced with Google Calendar REST API to enable users to Sign in to their Google account to automatically fetch, add and update calendar items within application through Google Cloud Platform
- Stored and accessed application data using database deployed on AWS through MongoDB Atlas and interfaced with MongoDB API through Node.js to perform CRUD operations remotely on database
- Hosted application on Node server, used Express HTTP request methods for client/server communication

Chrome Extension - McGill RateMyProfs extension | *JavaScript, HTML/CSS*

- Developed JavaScript Chrome Extension that links professor *ratemyprofessors.com* pages in McGill course websites
- Procedurally generated professor-specific queries using web-scraped instructor data
- Modified McGill webpage HTML DOM to incorporate links with custom GUI
- Published extension to Chrome Webstore with over dozen users and 5/5 average rating

Mini-Projects

Sudoku Solver: Developed Java sudoku solver program using recursive backtracking algorithms optimized to solve any user-inputted sudoku in milliseconds, re-implemented in JavaScript for web implementation with GUI.
2-Player Chess Program: Created 2-player chess Python program reconstructed in JavaScript for web implementation, built move validation and check/checkmate/stalemate detection algorithms, with support for en-passant, castling and promotions. Implemented rudimentary AI algorithm using randomization-based backtracking algorithm to find and play valid moves.