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 (targeting reduction of 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.