

Geoffrey Meric

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EDUCATION

McGill University

Sep 2020 - May 2024

Bachelor of Science in Computer Science, Minor in Finance

Montreal, Canada

- GPA 4.00/4.00
- Honors and Awards: Judie Rimer merit scholarship recipient, top 10% of cohort
- Relevant courses: Algorithms and Data Structures, Operating Systems, Software Design, Functional Programming

TECHNICAL SKILLS

Languages: Python, Java, C, JavaScript, HTML, CSS, SQL, OCaml, Bash

Technologies: Node.js, Express.js, React, MongoDB, GraphQL, REST APIs, Git, Google Cloud Platform

EXPERIENCE

Software Engineering Intern

May 2022 - Aug 2022

Procter & Gamble

Geneva, Switzerland

- Developed Python documentation tool to programmatically generate visualizations of the Pampers Customer Data Platform (CDP) architecture by interfacing with the Segment API via GraphQL, generating graphs using D3.js
- Deployed GitHub Actions workflows configured using YAML to sync CDP architecture changes in documentation
- Implemented monitoring framework for Braze Customer Relationship Management (CRM) platform operations by creating Python Airflow-automated data pipeline on Google Cloud Platform, interfacing with Braze REST APIs to fetch user change data and loading it to BigQuery, allowing for improved incident tracking and response capability
- Spearheaded development of Pampers CRM operations automation initiative Proof of Concept by creating full-stack web application in Node.js and Express.js, using GraphQL mutations to interface with Segment API to create consumer 'audiences', querying audience members by passing SQL queries through BigQuery API and leveraging Braze REST APIs to send marketing communications
- Created parsing framework for Segment JSON payloads using recursive Python algorithm to evaluate expression tree and reverse-engineering process to generate JSON payloads programmatically from user inputs

Software Development Intern

Jun 2021 - Aug 2021

Tegoya

Paris, France (remote)

- Collaboratively developed data visualization web application in JavaScript, PHP and HTML/CSS to retrieve, process and graphically display live air quality sensor data to test efficacy of air purification devices
- 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 data decimation

PROJECTS

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

- Interfaced with Google Calendar API using OAuth 2.0 protocol to enable users to import Google Calendar items
- Built web application using Node.js and Express.js, stored and accessed application data using database deployed on AWS through MongoDB Atlas and performed CRUD operations through MongoDB API

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

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

2-Player Chess Program | *Python, JavaScript, HTML/CSS*

- Developed Python chess program with move validation and check/mate detection algorithms
- Created randomization-based backtracking algorithm to find and play moves against user
- Reimplemented program in JavaScript for web implementation with GUI