Geoffrey Meric

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Education

McGill University Sep 2020 - May 2024
Bachelor of Science in Computer Science *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 & Algorithm Design, Databases

Technical Skills

Languages: Python, JavaScript/TypeScript, Java, C, HTML/CSS, SQL, Bash
Frameworks and Libraries: Node.js, Express.js, Jest.js, pandas, NumPy, Qt
Technologies: Git, shell scripting, REST APIs, GraphQL, Cloud Computing (AWS, GCP), Docker, Jira, CI/CD

Experience

Software Development Intern May 2023 - Aug 2023
Autodesk *Montreal, Canada*

- Implemented real-time logging infrastructure in Python within an Autodesk Maya plug-in associated with a Node.js-based cloud rendering platform and engineered new workflows in the plug-in allowing for an approximately 3x increase in user rendering job submission throughput
- Introduced new UI elements for the plug-in using the Qt framework through PyQt, enhancing the user experience
- Developed a Command Line Interface (CLI) utilizing the Listr2 TypeScript library to enable simultaneous live monitoring of rendering job progress and automatic downloading of job outputs and logs as they're generated
- Designed a comprehensive Jest.js test suite to ensure robust validation of CLI outputs and downloads
- Deployed automated Node.js scripts to post-process auto-generated API client code files

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
- Created web app using Node.js and Express.js used to automate CRM operations by leveraging Braze REST APIs, used as a proof of concept to design and send ad-hoc digital marketing campaigns in 20+ markets

Software Development Intern Jun 2021 - Aug 2021
Teqoya *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
- Implemented data analysis and downsampling capabilities in JavaScript, generated interactive data visualizations using Chart.js and developed curve smoothing, data decimation and graph comparison features

Projects

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

- Developed JavaScript Chrome Extension that links professor *ratemyprofessors.com* pages in McGill university course websites within a custom GUI and published it to the Chrome Webstore with over 30 users and 5/5 rating

Full-Stack Task Management Web Application | *JavaScript, Node.js, Express.js, MongoDB, Google APIs, HTML/CSS*

- 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
- Interfaced with Google Calendar API using OAuth 2.0 protocol to enable users to import Google Calendar items

Rudimentary Operating System | *C*

- Created a basic operating system in C featuring a command shell, process scheduling and memory management
- Implemented demand paging memory management with page fault handling through LRU page replacement
- Designed a process scheduler using a Process Control Block queue to enable various scheduling policies