Mubeen Mohammed

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Education

McGill University   Sep. 2022 – Dec 2026
Bachelor of Software Engineering Co-op   *Montreal, Quebec*

Relevant Coursework

- Data Structures
- Software Methodology
- Web Development
- Systems Programming
- Mobile App Development
- OOP

Experience

Coveo   September 2024 – Dec 2024
Software Developer Intern   *Hybrid*

- Built over 15 custom demos showcasing Coveo's search solutions by employing web scraping, data cleaning, and query pipelines, tailored to client needs. Leveraged JavaScript, TypeScript, and React to develop dynamic demo interfaces that increased client engagement
- Designed new query pipeline rules to improve search accuracy by 35%, focusing on aligning search results closely with user intent. This enhancement demonstrated Coveo's ability to deliver precise, relevant information, leading to a more compelling user experience.
- Created a specialized tool for Solution Engineers using API integrations to automate data collection and configuration for the Relative Generative Answering, which reduced troubleshooting time by 50% and improved answer accuracy by over 30% for natural language queries.

Ticket Sphere   May 2024 – Present
Software Developer   *Remote*

- Assisted in development of the front end of a mobile application for iOS/Android using Dart and the Flutter framework.
- Worked with Google Firebase to manage user-inputted data across multiple platforms including web and mobile apps.
- Collaborated with team members using version control systems such as Git to organize modifications and assign tasks.
- Utilized Android Studio and VS Code as a development environment in order to visualize the application in both iOS and Android.

McGill Engineering Student Center   Dec 2022 – Present
Office Assistant   *Montreal, Quebec*

- Supported more than 500 students by answering general academic and career-related questions, offering valuable insights
- Assisted the Software Co-op team by preparing mail merges, updating Google forms, and analyzing 300+ students list
- Automated and streamlined the submission of Microsoft forms using Power BI flows for the Graduate Funding Team

Projects

Settle Up (CodeJam Hackathon) | *React, Supabase, Python, OCR, HTTP, OpenAI API, Whisper API*   Nov 2024

- Designed and developed a Splitwise-inspired application integrating advanced OCR functionality using OpenAI API to scan and parse bill details automatically, identifying item names and prices for precise expense tracking.
- Implemented voice command support with Whisper API, enabling seamless user interactions for selecting group members and dividing expenses based on spoken inputs.
- Built a responsive and user-friendly interface using React for the frontend, Python for the backend logic, and Supabase for efficient database management.

Wareflow Desktop Application | *Java, Junit, JavaFX, JSON, UML, MVC*   April 2024

- Developed desktop app for warehouse shipment orders encompassing order creation, authentication, tracking functions
- Utilized UML abstraction to craft a scalable, maintainable Java API for the warehouse management app
- Tested app functionality rigorously with Gherkin Step definitions and Junit, ensuring reliability under diverse scenarios

Expense Tracker Application | *Dart, Flutter, Figma*   May 2024

- Developed a robust cross-platform mobile application using Flutter, enabling users to efficiently track and manage their expenses, improving financial oversight and planning.
- Implemented clean, modular architecture using materials library for state management, ensuring maintainable code and seamless performance to enhance user's experience

Technical Skills

Languages: Python, Java, C, C#, HTML/CSS, JavaScript, TypeScript, SQL, Dart, VHDL
Developer Tools: VS Code, IntelliJ IDEA, Eclipse, Firebase, Supabase, Android Studio, Unity, Quartus, Jupyter
Technologies/Frameworks: Linux, Git, JUnit, WordPress, JSON, ReactJS, Pandas, Numpy, Matplotlib, JavaFX, Flutter, Figma