Ammar Hatiya

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Skills Summary

Languages: Python, JavaScript, C#, C++, Java, HTML/CSS, Dart
Frameworks/Libraries: Node.js, Vue.js, React, Express.js, D3, Ajax, Flutter, SQLite, Vuetify
Tools/Other: Google Firebase, Docker, MongoDB, Azure, GitHub, JIRA, AWS S3/EC2/Lambda/Textract, GPT-4 Vision

Work Experience

iNAGO   Toronto, ON
Undergraduate Researcher | Python, JIRA, GPT-4 Vision   Sep. 2023 – Jun. 2024
- Led research on visual question generation using methods containing Seq2Seq models and LLM APIs, improving accuracy by **15%** through advanced contextual prompt engineering
- Collaborated with iNAGO to develop and evaluate methodologies for generating knowledge-based visual questions on real-world (automotive) datasets

Nuvoola   Montréal, QC
Software Developer (Intern) | React.js, Node.js, AWS EC2/S3, JIRA   Apr. 2023 – Sep. 2023
- Designed and developed stand-alone IDP module (web application) leveraging Amazon Textract OCR
- Kickstarted development of intelligent asset management solution for supply chain and logistics
- Constructed filters/queries for seamless data ingestion into cloud-based storage (Amazon S3)
- Integrated developed applications into pre-existing systems, including web applications and embedded software

Mely.ai   Toronto, ON
Full Stack Software Development Intern | Vue.js, C#, Python, Node.js, ASP.NET, SQL   Sep. 2022 – Apr. 2023
- Leveraged AI (Amazon Textract) tools to facilitate automated intelligent document processing for companies managing **100+** maritime and road transport clients daily
- Designed NLP solutions using C# and Python that work in conjunction with Amazon APIs
- Led redesign of the UI, enhancing the overall user experience and visual appeal of the web application
- Collaboratively developed remodels of database retrieval methods to streamline data flows within applications

Projects

Airline Crash Safety Statistics | Java, Gradle, JavaFX, FXML
- Given incident/safety statistics on **50+** airlines, developed data analytics scripts to process KPIs across the board to discover 70% decrease in fatal incidents/accidents in a 30-year period
- Developed a data visualization component via JavaFX to demonstrate likelihood of fatal crashes across all airlines

Proguru | HTML/CSS, JavaScript, Bootstrap, Ajax, Node.js, Vue.js, MongoDB
- Developed a comprehensive web application educating students on fundamental computer science concepts
- Integrated user authentication, progress tracking, and quiz features to facilitate learning
- Established a MongoDB database to store user information and track progress

Tale Tailor | Flutter, Dart, C++, SQLite
- Developed Tale Tailor, a collaborative storytelling mobile app
- Engineered authentication using Firebase and implemented SQLite for seamless data persistence
- Created REST APIs for integration and handled HTTP requests for external service connectivity
- Applied object-oriented programming principles to construct classes for collaborators, data storage, and login authentication

Education

B.Sc. Computer Science (Co-op), Ontario Tech University   Sep. 2020 – Apr. 2024
- President's List: (3 semesters), Dean's List: (4 semesters)
- Relevant Courses: Analysis & Design of Algorithms, Software Quality Assurance, Web Application Development, Software Design & Analysis, Software Development & Integration

B.Sc. Computer Science, University of Toronto   Sep. 2019 – Aug. 2020