

# Ammar Hatiya

(289)-600-1114

ammар.hatiya@gmail.com

[LinkedIn: ammar-hatiya](#)

[Github: AmmarHatiya](#)

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## Skills Summary

**Languages:** Python, JavaScript, C#, C++, Java, HTML/CSS, Dart

**Frameworks/Libraries:** Node.js, Vue.js, React, Express, D3, Ajax, Flutter, SQLite, Vuetify

**Tools/Other:** Firebase, Docker, MongoDB, Azure, Git, GitHub, JIRA, AWS S3/EC2/Lambda, GPT-4 Vision

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## Work Experience

### iNAGO

Toronto, ON

Undergraduate Researcher | Python, JIRA, GPT-4 Vision

Sep. 2023 – Jun. 2024

- Conducted an in-depth study of knowledge-based visual question generation methods utilizing Seq2Seq models, LLM APIs and prompt engineering techniques
- 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/Lambda, 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 data ingestion into cloud-based storage (Amazon S3)
- Integrated developed applications into preexisting architecture, including both web applications and embedded systems 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
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## 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

- Spearheaded the development of 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 and login authentication
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## Education

**B.Sc. Computer Science (Co-op), Ontario Tech University**

Sep. 2020 – Apr. 2024

- President's List: (3 semesters), Dean's List: (3 semesters)
- Relevant Courses: Analysis & Design of Algorithms, Web Application Development, Software Design & Analysis, Software Development & Integration, Software Quality Assurance

**B.Sc. Computer Science, University of Toronto**

Sep. 2019 – Aug. 2020