

# Ammar Hatiya

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## Skills Summary

**Languages:** Python, JavaScript, C#, C++, Java, HTML5, CSS3, Dart

**Libraries/Other:** Node.js, Vue.js, Express.js, React, D3.js, Docker, MongoDB, Ajax, Azure, Git, Flutter, JIRA

- Proven proficiency in data structures and algorithms via industry experience & research

- Skilled in software architecture design, adept at translating requirements into efficient & scalable solutions

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## Work Experience

### iNAGO & Ontario Tech University

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 datasets

### Nuvoola

Toronto, ON

**Software Developer Intern** | *React.js, Node.js, AWS EC2, AWS 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)

### 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
- Collaboratively developed remodels of database retrieval methods to streamline data flows within applications

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## Relevant 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*

- Contributed to a small team in designing and developing a comprehensive web application educating students on fundamental computer science topics, while establishing a MongoDB database to store user information and progress
- Integrated user authentication, progress tracking, and quiz features to facilitate learning

### 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
- Constructed and managed REST APIs for integration and handled HTTP requests for external service connectivity

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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