

Osama Hamad

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EDUCATION

B.C.S. in Computer Science, Statistics Minor (Co-op)

Expected 2027

Carleton University

Ottawa, ON

- **CGPA:** 11.72/12.0 (A/A+)
- **Courses:** Systems Programming, Software Engineering, Web Applications, Relational Databases, Data Structures & Algorithms, Object-Oriented Programming, Operating Systems, Discrete Structures, Statistical Modeling
- **Achievements:** Cybersecurity stream, Deans' Honour List 2024, Top 15% of Cohort, 5x Scholarships

SKILLS

Languages: Java, C/C++, Python, SQL, JavaScript, HTML/CSS, React, C#, R
Developer Tools: Git, GitHub, Node.js, Linux, SQLite, MongoDB, Heroku, Unity Game Engine, JSON, IntelliJ
Concepts: REST APIs, OOP, Machine Learning, Concurrency, Multi-Threading, Fullstack, Testing, Debugging
Competencies: Verbal and Written Communication Skills, Detail Oriented, Problem-Solver, Self-Driven, Motivated

EXPERIENCE

Founder/Lead Developer

Jul 2024 – Present

OutlineCenter.com

Remote

- Led a team of software developers in engineering a **Fullstack** application using the **MERN stack** to fill a gap in the market for course rating and outline sharing apps.
- Deployed the website using **Heroku**, Render and Name.com and **Cloudflare** to protect against cyber attacks.
- Implemented cyber security practices such as password **encryption**, a **verification** email system, **authorization** with **JWTs**, cookies and sessions.

AI/ML Prompt Engineer

Jan 2025 – Present

Outlier.ai

Remote

- Created and **optimized AI** prompts, improving AI response quality by **15%** in initial testing phases.
- Rated and reviewed outputs, achieving **95% alignment** with project quality standards.
- Identified and resolved **10+ errors** per task, enhancing response accuracy and reducing inconsistencies by 10%.

Data Analyst

Jan 2025 – Present

Telus

Remote

- Evaluated and rated search queries to optimize engine with **millions of users** based on predefined standards, ensuring consistent and accurate data classification.
- Utilized data analysis tools to identify patterns and trends, contributing to a **15% improvement** in query efficiency.

Computer Science Teaching Assistant

Sep 2024 – Present

Carleton University

Ottawa, ON

- Guided **700+** students in mastering **software engineering** by offering office hours, detailed feedback on class word, and interactive tutorial sessions, resulting in a **30%** increase in coding proficiency.
- Assisted students in **troubleshooting** and optimizing **Python** codebases through targeted guidance and problem-solving strategies, prompting a **70%** reduction in error rates.

PROJECTS

AI/ML Moderator Bot | Python, Git, NLP, Pandas, Scikit Learn, Numpy

Jul 2021 – April 2023

- Trained a **Machine Learning** model to detect toxic discord messages with a **94% success rate**.
- Utilized Natural Language Processing (NLP) algorithms like **XGBoost**, **Naive Bayes** and **Weighted SVM** to ensure high accuracy of toxicity detection, and a low false positive/negative rate.

School Q&A Website | JavaScript, MongoDB, Node.js, EJS, Express, Bootstrap

Sept 2022 – Feb 2023

- Designed an **Award Winning** school math and science **monitored and secure** forum, allowing for students to keep track of their previous questions and answers, and how they rank compared to other students.

Version Control System (Histo) | C Programming, Concurrency, Multi-threading, Pointers

Nov 2024 – Ongoing

- Engineered a version control system using **C Programming** Language to store previous versions of a project similar to **Git**
- Demonstrated knowledge of C practices like **multi-threading**, file-processing, **bitwise** operations, pointers, **POSIX**, etc

Hack-the-Tunnels 2024 | TypeScript, React, Prisma, Express, Git, Linux, HTML/SCSS

Oct 2024

- Integrated **front-end** services built with **React** and **TypeScript** with **back-end** services using **Express** and **Prisma**, resulting in a fully functional application for user login and schedule management.
- Implemented **RESTful API** routes for email and SMS services while using **Git** for collaborative development.