

Hatem Almasri

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EDUCATION

University of Alberta

Bachelor of Science in Computer Science

Edmonton, AB

Sep 2023 – May 2027

Relevant Coursework: Data Structures, Algorithms, Machine Learning, Computer Architecture, Discrete Math, Software Engineering, C Programming.

EXPERIENCE

Software Development Intern

May 2025 – August 2025

AzureProz

Toronto, ON

- Developed and maintained backend features using Python and Flask for internal tools, improving system reliability and performance.
- Implemented and optimized REST APIs connected to MongoDB, supporting efficient data retrieval for dashboards.
- Contributed to backend development of cloud-native applications with a focus on secure, maintainable code.
- Collaborated with engineers on debugging, resolving software issues, and maintaining Git-based workflows.

PROJECTS

Smart Job Tracker & AI Resume Optimizer | MERN Stack, Tailwind CSS, OpenAI API

- Built a multi-user platform with AI-powered resume analysis and feedback using OpenAI API.
- Enabled real-time resume-to-job description comparison to improve application targeting.
- Designed a modern, responsive UI focusing on accessibility.
- Supported multiple resume uploads per account for streamlined job tracking.

Chatty | React, Node.js, MongoDB, WebSockets

- Developed a fully responsive chat application with secure authentication and media sharing.
- Integrated WebSockets for low-latency communication and persistent message history.
- Implemented a customizable theme system with 32 color themes to improve user personalization.
- Securely stored user data, chat logs, and configurations using MongoDB.

3D Sphere Visualizer | C, Python

- Created a C-based ray-tracing visualizer rendering spheres with realistic lighting, shadows, and reflections.
- Implemented shading algorithms including diffuse and specular lighting models.
- Generated a 90-frame animation at 90 FPS illustrating dynamic lighting movement.
- Integrated anti-aliasing and file I/O support for PPM image sequence generation.

TECHNICAL SKILLS

Languages: Python, C/C++, Java, JavaScript, SQL, HTML/CSS, RISC-V Assembly

Frameworks/Libraries: React, Node.js, Express, Flask, FastAPI, Tailwind CSS, Material-UI, OpenAI API

Databases: MongoDB, PostgreSQL

Developer Tools: Git, Android Studio

Hackathons: 2025 HackED