

Zaid Ahmad

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Education

Carleton University, BS in Computer Science, AI and Machine Learning Stream Sept 2024 – May 2028
• CGPA: 7.3/12 **Coursework:** Data Structures & Algorithms; C/C++; Calculus; Linear Algebra; Discrete Structures II; Web Applications

Skills

Languages: C++, C, Java, Python, JavaScript, TypeScript **Frameworks & Libraries:** React (Next.js), React Flow, Node.js, Tailwind CSS

Tools & Platforms: Git/GitHub, GitHub Actions, Firebase, MongoDB, Linux, VSCode, Unreal Engine, Godot

Experience

Founder & Software Engineer, BuildAtlas – Ottawa, Ontario Jan 2026 – Present

- Architected a full-stack CI/CD pipeline visualizer using React (Next.js), Node.js, and the GitHub Actions API
- Implemented OAuth authentication and built backend services to parse workflow data into interactive node/edge graphs via React Flow
- Designed scalable project structure with modular API routes and service layers

Logistics Coordinator, cuHacking – Ottawa, Ontario Sept 2025 – Present

- Coordinated scheduling, room reservations, equipment setup, and on-site operations for a large-scale hackathon
- Managed inventory and resource distribution, collaborating with organizers, sponsors, and volunteers

Chief Petty Officer 2nd Class – Logistics Chief, RCSCC Falkland – Ottawa, Ontario Sept 2018 – Jun 2025

- Managed logistics and inventory for 100+ cadets; mentored junior members and led instructional sessions

Hackathon Developer, cuHacking 2025 – Carleton University, Ontario Mar 2025

- Built ShelterMatch Ottawa, a full-stack web platform helping Ottawa residents find shelters via a Tinder-style swipe UI with smart filtering by gender, religion, and services
- Developed Express backend with auth, swipe history, and shelter query API; deployed frontend on Netlify and backend on Render

Projects

BuildAtlas – CI/CD Pipeline Visualizer github.com/zaidahmad16/BuildAtlas

- Full-stack platform fetching GitHub Actions data and rendering interactive pipeline graphs with React Flow and a modular Node.js backend
- **Tools:** React (Next.js), TypeScript, Tailwind CSS, React Flow, Node.js, GitHub Actions API

ShelterMatch Ottawa (cuHacking 2025) github.com/zaidahmad16/cuHacking2025

- Full-stack shelter-matching platform with a Tinder-style swipe UI, smart filtering (gender, religion, services), and real data for 15 Ottawa shelters
- Built secure auth system, swipe history, saved shelters, and RESTful API with Express; deployed live at sheltermatchottawa.shop
- **Tools:** Next.js, React, Framer Motion, Tailwind CSS, Node.js, Express

Multithreaded C Simulation Game github.com/zaidahmad16/COMP2401

- Concurrent agent simulation using POSIX threads and semaphores; implemented deadlock prevention and memory management

Personal Portfolio (zaidahmad.dev) github.com/zaidahmad16/ZaidAhmadWeb

- Responsive portfolio site with clean UI and interactive elements
- **Tools:** HTML, CSS, JavaScript