

Jana Hamidaldeen

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EDUCATION

University of Waterloo

Waterloo, ON

Bachelor of Applied Science, Mechatronics Engineering with Entrepreneurship Option

2023-Present

Coursework: Algorithms & Data Structures, Real-Time Systems, Microprocessor Interfacing, Digital Computation

TECHNICAL SKILLS

Languages/Frameworks: C++, C, Python, Java, Swift, HTML/CSS, VHDL, React, Vite, FastAPI, Processing

AI Tools: Google Gemini 2.5 Flash, Snowflake Cortex AI, Logistic Regression, Sentiment Analysis, PowerBI

Cloud & Security: Git, Jira, Azure AD, Snowflake SQL Worksheet

EXPERIENCE

Co-founder & Lead Developer

Nov. 2025 – Present

Hearty

Waterloo, ON

- **Architected and deployed** a business website by translating Figma prototypes into JavaScript implementation, increasing brand reach and digital engagement.
- **Developed data-driven financial models** using Excel to automate cost-analysis and supply chain logistics, optimizing profit margins through predictive resource allocation.

Infrastructure Coordinator

May – April 2025 & Sep – Dec 2025

D2L

Kitchener, ON

- **Reduced manual configuration time by 60%** by engineering a custom system-provisioning tool in PowerShell to automate company-wide OS deployment and hardware initialization.
- **Optimized security workflows** for 70+ enterprise assets by auditing security protocols via Jira and Azure AD to ensure SOC 2 compliance.
- **Resolved 150+ technical escalations** by performing root-cause analysis on OS kernel and software configurations, maintaining high system uptime across the organization.
- **Scaled enterprise infrastructure** by integrating Intune and M365 cloud solutions, enhancing remote storage and network synchronization for the engineering department.
- **Facilitated high-availability migrations**, including a transition to a global Slack Grid architecture and an automated desk-booking API integration.

Campus Ambassador

May – Aug 2025

D2L

Kitchener, ON

- Enhanced employer branding by publishing [blog](#) content and facilitating engagement to support campus hiring.

PROJECTS

Cadence AI | *React, FastAPI, Python, Snowflake Cortex AI, Gemini 2.5 Flash, SQL*

- Won **"Best Use of Snowflake API"** at CTRL+HACK+DEL by engineering a predictive health engine using a Logistic Regression model trained on 900+ data points to calculate user fitness scores.
- Integrated Snowflake Cortex and Gemini 2.5 Flash to automate sentiment analysis on workout journals, providing real-time recovery feedback and burnout prevention strategies via a FastAPI backend.

iOS Dietary App | *Swift, XCode, MapKit*

- Building a **web-scraping data pipeline** using Playwright to cross-reference eatery metadata, enabling a centralized data source for full-stack iOS deployment.
- Developed **custom filtering algorithms** integrated with MapKit to dynamically match user dietary profiles with real-time location data for instant restaurant matching.

DiRect | *Swift, Xcode, UI/UX*

- Won **Best User Design & Grand Prize** at Technovation by pitching and prototyping a restaurant-discovery application focused on high-fidelity visuals and UX simplicity.
- Earned a **Google interview** and **UWaterloo feature** for placing in the top 5% of 40+ competing teams.

COMPETITIONS & AWARDS

Hack the North, Ctrl+Hack+Del Winner, Technovation (Regional Grand Prize & Best User Design)