

HASAN

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EDUCATION

Seneca Polytechnic

Bachelor of Software Engineering, GPA: 3.6/4.0

Toronto, Canada

Jan 2023 – Aug 2026

EXPERIENCE

Ontario Public Service – Justice Technology Services

Toronto, Canada

IT Systems & Programmer Co-op

Jan 2026 – Apr 2026

- Built and packaged a Python/Streamlit reporting tool as a standalone executable, automating Excel logs for 25+ codecs across Brampton and cutting reporting time from 1–2 hours to under 5 minutes.
- Automated incident logging and SLA breach checks using Microsoft Copilot, reducing documentation time for five incidents from 1 hour to about 5 minutes.
- Designed Power BI dashboards using Azure Blob Storage data, giving multiple teams a centralized view of daily, weekly, monthly, and incident trends.
- Validated 20+ UAT scenarios across devices and workflows, reporting defects and recommending UI improvements to ensure acceptance criteria were met before release.

LEAP Real Estate

United States (Remote)

Lead Full-Stack Developer (Freelance)

Jan 2025 – Jan 2026

- Led architecture and development of a production Next.js education platform, launching Florida licensing courses on a state-configurable foundation while maintaining quality through code reviews, automated testing, and deployment workflows.
- Designed a scalable, maintainable data model in MongoDB Atlas, enabling end-to-end course creation, blog publishing, draft/publish workflows, and role-based access.
- Engineered a custom Stripe payment and enrollment system with idempotency, stage-by-stage recovery, and admin visibility, preventing duplicate transactions and improving payment reliability.
- Optimized page delivery using SSG, ISR, on-demand revalidation, edge caching, and pagination, improving initial load speed while reducing server load and supporting higher traffic.

Noun (Everyday Chemist)

Toronto, Canada

Software Developer Intern

May 2025 – Aug 2025

- Led the production rebuild of a full-stack application using Next.js App Router and Firebase Authentication, improving application performance, authentication reliability, deployment stability, and code maintainability.
- Collaborated with the CTO and engineering team to design scalable relational data models using PostgreSQL and Prisma, translating complex brand, manufacturer, and product workflows into a maintainable database structure.
- Implemented a first-party Cloudflare proxy for Segment analytics, reducing ad-blocker data loss and improving Mixpanel event capture reliability.
- Co-developed AI-powered product brief generation and manufacturer matching pipelines using LangChain, OpenAI, and vector search, reducing creation time from months to hours across hundreds of items while achieving 80–95% match accuracy.

Lazem Holding Group

Riyadh, Saudi Arabia

Software Engineer Intern (Hybrid)

May 2024 – Aug 2024

- Developed a client-side PDF editor using React and Vite for internal teams, supporting editing, watermarking, signing, metadata updates, and encryption while reducing reliance on paid Adobe software.
- Co-developed a React/Vite asset management dashboard using Appwrite Cloud for authentication, database, and storage, centralizing barcode-based asset tracking across multiple locations.
- Developed core modules for a medical training platform using React/Vite and Node.js/Express, automating class scheduling, student progress tracking, performance monitoring, and certificate generation.

PROJECTS

ParkAI – Real-Time Smart Parking Detection | YOLOv8, Flask, ESP32-CAM, FRDM-K66F, C++ tinyurl.com/li-park-ai

- Fine-tuned YOLOv8s on 2,150 parking images, achieving 95% mAP@0.50 for occupied and available parking-space detection.
- Led the integration of ESP32-CAM, Flask, and FRDM-K66F over HTTP, enabling real-time parking detection and automated gate, LED, LCD, and servo control.

Algo-Maze – Algorithm Visualizer | React, Vite, TypeScript, Zustand, Graph Algorithms

algo-mazes.netlify.app

- Demonstrated an interactive React/TypeScript pathfinding visualizer to 60+ students, helping them understand BFS, DFS, and recursive maze generation through step-by-step animations.

Byte-Link – Social Sharing App | React, Vite, TanStack Query, TypeScript, Appwrite

byte-link.netlify.app

- Engineered a full-stack media-sharing app using React, Appwrite, and TanStack Query, delivering fast feeds through infinite queries, optimistic updates, and client-side caching.

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Python, SQL, Java, C, C++, HTML, CSS

Frameworks: React, Next.js, React Native, Node.js, Express.js, Spring Boot, LangChain, LangGraph, OpenAI API

Tools: AWS, Azure, Vercel, Cloudflare, Linux, Docker, Kubernetes, Terraform, Serverless Framework, PostgreSQL, MongoDB, Pinecone, Firebase, Git, GitHub Actions, Jira, Vite, Vitest, Cypress, Stripe, WordPress, PostHog

Concepts: REST APIs, CI/CD, Agile/Scrum, Unit Testing, Code Reviews, OOP, DSA, Distributed Systems, RAG, Agentic AI

CERTIFICATIONS & LEADERSHIP

[AWS Certified AI Practitioner \(AIF-C01\)](#) | [Azure AI Fundamentals \(AI-900\)](#)

[Presenter, OpenCV & MediaPipe Workshop](#) – York University Gaming Hackathon (50+ students)