

Mohd Bilal

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EDUCATION

Confederation College
Diploma, Computer Programming

Thunder Bay, ON
Sep. 2024 – Apr. 2026

EXPERIENCE

Student Computer Peer Tutor (Part-Time)
Confederation College

Sep. 2025 – Present
Thunder Bay, ON

- Assist students in troubleshooting **software, hardware, and network issues**, improving their productivity.
- Support students in navigating college IT resources and resolving common technical problems.

Computer Service Help Desk Assistant - (Summer Student)
Confederation College

May 2025 – Aug. 2025
Thunder Bay, ON

- Set up and configure lab and classroom computer workstations.
- Deploy software images and install applications as needed.
- Pack, move, and set up computer equipment for summer projects.
- Assist IT staff with network cabling, AV/e-classroom, and web-conference room maintenance.

Full-Stack Developer
Connected To Culture, Inc.

Mar. 2024 – Sep. 2024
Washington, DC

- Built a personalized recommendation system with **LangChain** and **vector similarity search**, improving user engagement.
- Optimized backend services using **Fastify** and **TypeScript**, achieving faster API responses and secure authentication.
- Implemented and maintained **CI/CD pipelines using Jenkins**, automating testing and deployment to streamline delivery workflows.

PROJECTS

Hixbi | *React, Next.js, Cloudflare Workers, Stripe, Zustand, NextAuth*

Live — [GitHub](#)

- Developed a unified web application enabling seamless chat with **Gemini, ChatGPT, Claude, and DeepSeek** from a single interface.
- Achieved faster text responses than OpenAI** by deploying **microservices globally** with **Cloudflare Workers**, showcasing advanced **serverless computing** and **systems engineering**.
- Integrated **Stripe** for secure payment processing and monetization.
- Built a **highly scalable** frontend using **React** and **Next.js**, with **Zustand** state management to improve UI performance by **200%**.
- Implemented **NextAuth** for authentication and role-based access control.
- Designed and integrated **REST APIs** for multiple Generative AI models, ensuring high availability and low-latency responses.

The Gold Star | *Express.js, React (Vite), SQL, Framer Motion, Tailwind CSS, Vercel*

Live

- Built a **QR code-driven customer feedback** platform where users can submit reviews **publicly or privately**, with a **Google-compliant** flow for publishing.
- Developed a **React + Vite** frontend with **Tailwind CSS** and **Framer Motion** animations; backend APIs in **Express.js** with **SQL** persistence.
- Implemented secure links and rate-limited endpoints for review submission; added admin views for moderation and analytics.
- Production deployment on **Vercel**; domain: thegoldstar.ca.

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, HTML5/CSS, SQL, Java, C#

Frameworks: React, Next.js, Express.js, LangChain, Tailwind CSS, React Native, React Context API, Redux Toolkit

AI/ML: OpenAI API, LangChain, MongoDB Atlas Vector Search

Databases: SQL, MongoDB, PostgreSQL, MySQL, Redis

Cloud & DevOps: AWS (EC2, S3, Lambda), Vercel, Cloudinary, Docker, Jenkins

Tools: Git, GitHub, Postman, Linux, Firebase, CI/CD Pipelines