

Bhavesh Gavali

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EDUCATION

Algoma University, ON - Bachelor of Science in Computer Science

Jan 2023 - Dec 2025

EXPERIENCE

Full Stack Developer Intern @ **Tutormates**

Toronto, ON | Feb 2024 - June 2024

- Migrated WordPress systems to modern MERN stack
- Built ESL app features using **Next.js**, **TypeScript**, **Supabase**

CAPSTONE PROJECTS

Shipyard | Vercel-like CI/CD Deployment

[Github](#) | [Visit](#)

- Developed a full-stack deployment platform using TypeScript, Node.js, Express, and AWS services like ECS, ECR and S3, following a **microservices** architecture.
- Integrated with GitHub to enable on-demand container builds, automating deployments and showcasing skills in DevOps and cloud infrastructure. Wrote **unit** and integration **tests** using **Jest** to ensure code reliability.
- Built a CI/CD pipeline using Docker **Containerization** and AWS ECS, delivering real-time build logs and zero-downtime deployments for React and Vite apps.
- Implemented real-time deployment logging and build tracking using Redis pub/sub and WebSockets, enhancing user experience and visibility during deployment.

Github Issues Solver Agent

- Built an autonomous AI agent using LangGraph, OpenAI GPT-4o, and the GitHub API to automatically analyze and resolve issues — enhancing productivity in modern software development workflows.
- Designed a structured agent workflow (plan → action → observation → output) to simulate human-like reasoning for debugging, code navigation, and automated pull request creation.
- Implemented function-based tooling such as readFile, editFile, and submitPR, allowing the agent to interact directly with the codebase in a containerized and secure environment using Docker.
- Integrated with GitHub's **MCP** and **REST APIs** for repository metadata access, issue tracking, reflecting strong experience in API integration, automation, and agent-driven systems.

AI Trade Agent | Crypto Arbitrage Bot

[Github](#)

- Developed an AI-powered trading agentic workflow using OpenAI GPT-4o and Node.js to identify and simulate crypto arbitrage opportunities across multiple exchanges like Binance and Coinbase.
- Built a modular, event-driven architecture with helper functions (buyToken, getTokenPrice, etc.), demonstrating strong backend engineering and real-time API integration skills.
- Integrated risk management logic with dynamic wallet tracking and trade limits.

Personal Portfolio Site - React, TypeScript, TailwindCSS, Supabase - PostgreSQL, Auth,

[Visit](#)

SKILLS

Languages: JavaScript, TypeScript, SQL, Node.js
Infrastructure: Docker, AWS (ECS/S3/Fargate), Redis
Frontend: React, TailwindCSS, shadcn/ui
Tools: Git, CI/CD, REST APIs, Agile, Microservices
Learning: Kubernetes, Monitoring, Load Balancing