

Raju Ahmed

Full Stack Engineer | Agentic AI

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About Me

5+ years of experience in modern web development, scalable application architectures, and intelligent automation. Skilled in **CI/CD pipelines**, **Docker** containerization, and full-stack development. Passionate about developing LLM-powered applications and **Agentic AI**.

Experience

Raving Code

Apr. 2022 – Aug. 2022

Laravel - JavaScript Developer (University Internship)

Kuala Lumpur, Malaysia

- Used Blade template and **Laravel Livewire** to create dynamic web applications with seamless server-side rendering.
- Optimized **SQL queries** for minimal query response time, achieving up to **40% reduction** in response time.
- Accelerated the software development lifecycle (**SDLC**) by implementing automated CI/CD pipelines and containerization, resulting in faster feature releases and reduced manual overhead

LTT Global Communication

Aug. 2021 – Feb. 2022

Front-End Dev (Industrial Project)

Kuala Lumpur, Malaysia

- Collaborated with Industry Partner for University Capstone Project, administering the codebase using Git and BitBucket
- Designed and built responsive, mobile-first interfaces, converting wireframes into interactive, scalable experiences.
- Optimized team productivity and project transparency by leveraging **Jira** for **Agile Sprint** planning and task tracking, ensuring on-time delivery of key milestones.
- Contributed to the setup and maintenance of **CI/CD Pipelines** using GitHub Actions and performed tests using **Jest**.

Marine Safety System

Jan. 2016 – Mar. 2020

PHP Developer (Hybrid)

Chittagong, Bangladesh

- **Lead the development** of the company's first **CMS**, organizing data accessibility and **improving efficiency by 70%**.
- Restructured communication flow among **10** departments by streamlining digital process cutting down paperwork by **half**.
- Designed and launched company's first corporate website leveraging responsive frameworks and modular UI components, ensuring cross-browser compatibility. **Url:** <https://marinesafetysystem.com/>

Featured Projects

Brain Buddy - LLM Voice Interaction Learning Platform

- Architected a scalable **AI learning platform** supporting real-time voice interactions via **VAPI**, optimized for low-latency tutor responses during peak user traffic
- Integrated authentication, payment, and subscription workflows using Clerk with role based access control.
- Utilized Supabase for database management to handle user data and interaction history ensuring future scalability
- **Url:** <https://brain-buddy-ten.vercel.app/> **GitHub:** <https://github.com/imraj560/BrainBuddy>

Support AI Chat Agent

- Developed an AI-driven chatbot using **Retrieval Augmented Generation (RAG)** and context-specific query architecture.
- Integrated **Vercel AI SDK** to seamlessly connect the frontend UI with OpenAI APIs, enabling efficient request handling.
- Utilized Supabase to manage **vector embeddings** enabling information retrieval and storage.
- **Url:** <https://aisupportagent.netlify.app/> **GitHub:** <https://github.com/imraj560/aiagent>

Acquisitions - Production Ready API

- Full automation using CI/CD pipelines, automated build, test, and Docker images publishing via GitHub Actions.
- Implemented comprehensive API endpoint testing using Jest, including unit and integration tests with mocked dependencies to ensure reliability, correctness, and regression prevention.
- Implemented API security using **Arcjet**, including **rate limiting**, bot detection, and automated abuse prevention to safeguard endpoints against malicious traffic and ensure service reliability
- **GitHub:** <https://github.com/imraj560/acquisitions>

Skills

Languages/Frameworks:Next.js, **JavaScript**, jQuery, Ajax, **TypeScript**, React, Node.js, Express, PHP, Laravel, Livewire
AI Stack: **Agentic AI** and **RAG Architecture**, Vector Store Integration, Data Chunking Strategies, Agentic RAG and Routing
Database: MySQL, SQL, Complex Query Design, WorkBench, MongoDB, Mongoose, Supabase, PostgreSQL, Neon DB
DevOps & Tools: **Docker**, Automated **CI/CD** Workflows, GitHub Actions, Jest Testing, Git, Jira, Agile Collaboration
System Architecture: System Design, API Architecture, Backend service design with Layered Architecture

Recent Work

CLI Agent

- Finished building this CLI agent using Node.js and OpenAI SDK, focusing on tool calling, agent loops, **evaluation frameworks**, and **context management**. Implementing CLI-based agents capable of web search, **file operations**, and human-in-the-loop decision workflows. **Link:**<https://github.com/imraj560/CLI-Agent>

Recommendations & Achievements

LTT Global Communications (Malaysia): Letter of Recommendation

- Awarded for successful collaboration in delivering a frontend capstone project with excellence and strong work ethic. **Link:** <https://drive.google.com/file/d/1msObGKM-Rg2FHOxWr5JFeFFwxq4P20Lm/view?usp=sharing>

MicFront (Malaysia): Public Speaking Participant

- Delivered structured speeches and actively participated in interactive sessions to improve confidence, articulation, and audience engagement, with a focus on clear communication, persuasive delivery, and real-time feedback analysis

Tech-MeetUp (Malaysia): Event Organizer

- Helped organize and coordinate technical events, actively engaging with newcomers to guide them on best practices for building reusable components in React.js. Facilitated discussions and knowledge sharing around transitioning from React abstractions to core JavaScript (Vanilla JS)

Technical Certifications

Coursera: Agentic AI With LangChain and LangGraph

- Completed coursework in Agentic AI Systems, developing intelligent agents with LangChain and LangGraph using memory, iterative workflows, and conditional logic. Applied ReAct, Reflection, and Reflexion architectures for autonomous reasoning, implemented collaborative multi-agent systems, and built Agentic RAG solutions with query routing and retrieval-enhanced reasoning.

Front End Masters: AI Agents Fundamentals

- Built by Scott Moss (Senior Engineer @ Netflix), this course taught me you how to create a CLI AI agent from scratchcovering tool calling, agent loops, evals, human-in-the-loop approvals, token monitoring, and advanced context window management.

Scrimba: Support AI Agent

- A foundational certification in my AI Engineering journey, where I learned my way around a RAG-based chatbot using Vercel AI SDK, Supabase for vector storage, and OpenAI models to deliver context-aware responses from a knowledge base.

Zero to Mastery: Complete React Developer

- This program has been a core part of my development as a React developer. I built a strong foundation in modern React, including hooks, state management, routing, and performance optimization. Through hands-on projects, I developed scalable, production-ready applications while working with tools like Redux, APIs, and modern frontend workflows

Education

Concordia University <i>Master of Information Systems Security</i>	May 2024 – Dec. 2025 Montreal, Canada
Taylor’s University <i>Bachelor of Software Engineering</i>	Aug. 2019 – Dec. 2022 Kuala Lumpur, Malaysia