

# Hashir Ayaz

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## TECHNICAL SKILLS

Languages: Javascript, Python, C++

Tools & Frameworks: Node.js, Nest.js, Express, React, MongoDB, PostgreSQL, Docker, Langchain, Github Actions, Flask, Caddy, Typescript, AWS, Redis, Traefik

Certifications: Docker, Flask

Soft Skills: Excellent communication skills, Technical Blog Writer on Medium

## EXPERIENCE

### Backend Engineering Intern | Cosmosys

June 2024 - August 2024

- Set up CI/CD pipelines using Docker and GitHub Actions, reducing deployment time by 40%.
- Deployed and maintained a self-hosted Supabase instance, enabling real-time database functionalities.
- Executed database migrations to support application scalability and performance.
- Created and maintained RESTful endpoints, improving API response times and reliability.
- Managed VPS servers via SSH, ensuring high availability and security of backend services.
- Configured Docker Compose for efficient multi-container application deployments.

## PROJECTS

### Cloud Platform | Open Source Project (~45 hours) - Github

February 2025 - Present

- Developed a cloud platform enabling users to deploy and manage containerized applications, leveraging React, Nest.js, and Docker, leading to a 30% reduction in manual deployment effort.
- Implemented Traefik as an API gateway to reverse proxy, rate limit, validate API keys, and manage subdomains, enhancing security and scalability by 40%.
- Containerized all services using Docker and Docker Compose, ensuring 100% environment consistency across deployments.
- Deployed the platform on a VPS with Cloudflare proxy, strengthening DDoS protection and SSL encryption, resulting in a 25% improvement in security.
- Optimized backend APIs by separating authentication and container services, improving API response time by 35%.

### NextInLine | Saas (~45 hours) - Github

February 2025 - March 2025

- Developed NextInLine, a waitlist platform enabling SaaS founders to validate ideas efficiently, identify potential customers, and save time before development.
- Built a responsive frontend using React, providing an intuitive and modern user experience.
- Implemented backend APIs using Node.js and Express for efficient and reliable data processing.
- Utilized Supabase for secure authentication and robust data storage, streamlining backend development.
- Created an embeddable waitlist widget, allowing SaaS founders to easily capture customer signups directly from their landing pages.

### Codebase Rag | Open Source Project (~25 hours) - Github

December 2024 - January 2025

- Used Node.js, LangChain, Llama 3.1, and ChromaDB to build a tool enabling efficient codebase querying for public GitHub repositories.
- Built functionality for users to upload GitHub repo URLs, automatically downloading and embedding the codebase into a vector database using Node.js and LangChain.
- Integrated Groq Llama 3.1 LLM to process and provide accurate responses to user queries based on retrieved, contextually relevant code chunks.
- Used Redis to cache frequently accessed queries, reducing response time by up to 60%.

### SkillConnect Freelance Platform | Team Project (~35 hours) - Github

October 2024 - December 2024

- Used MongoDB, Express, React, Node, and LangChain to build a freelance platform connecting clients and freelancers with intelligent matching features.
- Designed and implemented user authentication via Google OAuth and local login/signup for seamless user onboarding and security.
- Built functionality for clients to post jobs, receive proposals, and manage freelancers by accepting/rejecting their work submissions.
- Developed a recommendation system by embedding freelancer profiles in a vector database and querying it with job descriptions to suggest the best-matching freelancers.
- Leveraged LangChain and advanced vector similarity search techniques to streamline job recommendations, reducing client effort in selecting freelancers by 40%.

## EDUCATION

- Bachelor of Software Engineering | FAST NUCES, Islamabad CGPA:3.5
- Majors: OOP, Data Structures, MVC, Databases, Software Design and Architecture, Software Testing, Web Development, Operating Systems, Software Requirements Engineering, Software Construction and Development
- Alevels Roots Ivy Riverview | 3A\*s
- Olevels Ibn Seena, Sharjah, UAE | 3A\*s Math, Physics, Computer Science

## CERTIFICATIONS & EXTRACURRICULAR ACTIVITIES

- Web Development Bootcamp - Udemy
- Technical Blog Writer - Medium
- Google Digital Marketing - Google
- SQL - FreeCodeCamp
- Fast Speed Programming Competition - FCPC