

SALMAN FATAHILLAH

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WORK EXPERIENCE

Technical Lead & Fullstack Developer

London, UK

CICON.App

May 2024 – Present

Developed an AI-powered e-commerce platform for seamless shoe repair services using **Next.js** with integrations for **Stripe**, **Twilio**, and **OpenAI**.

- **End-to-End Full-Stack Development:** Led development of a multi-stage repair flow (prompt and photo upload, fault analysis, basket review, and checkout) using **Next.js** and **React components**, delivering an intuitive, engaging user experience.
- **State management and scalability:** Designed scalable state management utilizing **React's Context API**, enabling scalable and maintainable development.
- **Secure and dynamic payments:** Integrated **Stripe** for secure payment processing with real-time amendments, user confirmations, and time-sensitive payment handling, enhancing transactional security and flexibility.
- **Real-Time Error Tracking:** Integrated **Sentry.io** to monitor and resolve errors proactively, improving reliability and minimizing downtime.
- **Backend Architecture and AI Integration:** Developed secure API endpoints using **FastAPI (Python)** with **SQLAlchemy**, facilitating AI-driven fault analysis and repair recommendations. This backend design enables real-time interactions with the AI model and provides seamless, personalized insights to users.
- **Data Management and Consistency:** Managed a **PostgreSQL** database hosted on **AWS**, utilizing **Prisma** within **Next.js** for efficient data handling on the frontend. Designed a robust schema to support complex data relations, ensuring data integrity across orders, payments, and repair workflows.
- **Continuous Deployment and Production Readiness:** Managed **CI/CD workflows** using **GitHub Actions** for deployments across environments, deploying the **FastAPI service to EC2 on AWS** and the **Next.js app to Vercel**. Achieved a seamless development-to-production pipeline that supports consistent testing and deployment, ensuring smooth updates and reliability in production.
- **Agile Collaboration:** Coordinated Agile sprints through **Jira**, working closely with the founder to align technical solutions with the company vision and driving the project roadmap.

Data Analyst Assistant (Contract)

London, UK

Times Higher Education

Nov 2023 – Feb 2024

Involved in ranking universities and higher education institutions based on the United Nations' Sustainable Development Goals (SDGs) for the **Impact Ranking 2024**.

- **Evidence validation:** Conducted thorough validation procedures to ensure data accuracy from various institutions, maintaining meticulous records of validation activities.
- **Promotion:** Promoted to the Quality Assurance team to oversee and enhance validation processes, ensuring high standards of data integrity and accuracy.

HACKATONS

1st Winner | UST D3code Hackathon 2024

UK | Oct 2024

Developed **Skylark SMS**, an AI-powered SMS health solution that delivers **behavioural science-informed** real-time health guidance to rural, underserved communities. **Awarded £4,000** for innovation and impact.

- Built with **Next.js** to simulate an SMS interface and **Node.js** for a robust backend.
- Integrated **NLP models from HuggingFace** and medical databases (NHS Website Content API) for reliable health advice.
- Designed a **scalable architecture** to support outreach in rural areas.

1st Winner | Hallé Archive Hackathon

Manchester, UK | Apr 2024

Led data analysis using **MySQL** and **NLP** techniques to uncover gender disparities in orchestral compositions, securing first place for impactful data-driven insights.

1st Winner | Lincoln Hack

Lincoln, UK | Mar 2024

Developed "Stripes n Strides," a tiger-themed mobile fitness app using **React** and **Node.js**, winning the hackathon for its innovative concept and execution.

EDUCATION

University of Birmingham	Birmingham, UK
M.Sc. (Taught) Data Science Distinction	
Institut Teknologi Bandung (ITB)	Bandung, Indonesia
B.Sc. Chemical Engineering	

SKILLS

Frontend Development

Languages: JavaScript (ES6+), TypeScript, HTML5, CSS3 | **Frameworks:** React, Next.js | **Styling:** Tailwind CSS, DaisyUI | **State Management:** React Context API, Redux | **Version Control:** Git, GitHub

Backend Development

Languages: Python, Node.js, JavaScript | **Frameworks:** FastAPI, Express.js | **Databases:** PostgreSQL, Prisma ORM, SQLAlchemy | **Authentication & Security:** JWT, OAuth, Input Validation

DevOps & Tools

Deployment: Vercel, AWS (S3, EC2), Docker | **CI/CD:** GitHub Actions | **Containerization:** Docker | **Monitoring & Error Tracking:** Sentry.io

Project Management & Collaboration

Agile Methodologies: Scrum | **Tools:** Jira, Trello, Discord/Slack