

# SALMAN FATAHILLAH

London, UK | [fatahillah.salman@outlook.com](mailto:fatahillah.salman@outlook.com) | [linkedin.com/in/salman-fatahillah](https://www.linkedin.com/in/salman-fatahillah)

## WORK EXPERIENCE

### Technical Lead & Fullstack Developer

London, UK

#### CICON

May 2024 – Present

- Architected and developed a comprehensive AI-powered e-commerce platform for shoe repair services, delivering end-to-end solution from customer onboarding to cobbler fulfilment using modern web technologies and cloud infrastructure.
- Full-Stack Development:** Built complete 5-stage customer journey from photo upload to payment processing using Next.js 15, React 19, and TypeScript with responsive UI design and advanced state management across complex user workflows
  - AI Integration:** Developed FastAPI backend with OpenAI GPT-4o for automated shoe fault detection and repair recommendations, processing multiple image uploads with custom prompt engineering.
  - Advanced Payment Processing:** Integrated Stripe for secure payments with complex commission handling for multiple cobblers, real-time price amendments, automated refund processing, and time-sensitive payment confirmations with comprehensive error handling.
  - Communication & Automation:** Implemented Twilio SMS integration for automated customer notifications, order status updates, and cobbler coordination throughout the entire repair lifecycle with QR code shipment tracking.
  - Database & Infrastructure:** Designed PostgreSQL database with 15+ interconnected tables using Prisma ORM, deployed frontend to Vercel and containerized FastAPI backend to AWS EC2 with automated CI/CD pipelines and zero-downtime deployments.
  - Quality Assurance & Performance:** Implemented comprehensive testing strategy with Jest, Playwright, and React Testing Library achieving high code coverage, integrated Sentry for real-time error tracking and performance monitoring with custom alerting.
  - Architecture & Scalability:** Designed microservices architecture with separate frontend/backend deployments, implemented sophisticated state persistence with localStorage fallbacks, and built scalable API endpoints supporting multiple deployment environments.
  - Project Leadership:** Coordinated Agile development sprints using Jira, collaborated directly with founder to translate business requirements into technical solutions, and drove technical roadmap decisions for platform growth.

### 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.

## 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