

SAHADH FAZAL MOHAMED

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PROFESSIONAL SUMMARY

Final-year BSc Computer Science student at Nottingham Trent University, on track for a Exceptional First, with hands-on experience in software engineering, AI/ML, and cloud computing. Skilled in Python, Java, C++, SQL, JavaScript, and full-stack development using React, Django, and Flask. Proficient with AI frameworks such as PyTorch and TensorFlow for building intelligent, data-driven solutions. Passionate about applying data analytics, automation, and scalable cloud architectures to solve real-world problems through user-focused, high-impact software systems.

EDUCATION

Nottingham Trent University - Nottingham
BSc: Computer Science (Hons) - Honours
09/2023 – 06/2026

Final Year Modules (2025–26):

- Advanced Analysis & Design
- Final Year Project
- Mobile Application Development
- Artificial Intelligence
- Service-Centric & Cloud Computing

KV International School(CBSE) - Ramanathapuram
06/2011 - 05/2023

AISSCE: Information Technology and Science CBSE 12th

SKILLS

Technical Skills

- **Programming Languages** - Python, Java, C++, JavaScript, SQL, HTML, CSS.
- **Frameworks & Libraries** - PyTorch, TensorFlow, Flask, Django, React, Node.js, Express.js, Pandas, NumPy, Seaborn, Matplotlib.
- **AI & Machine Learning** - Supervised & Unsupervised Learning, Neural Networks, NLP (Chatbots, Transformers), Computer Vision, Deep Learning, MLOps, Data Visualization.
- **Web & App Development** - Full Stack Development (MERN & Django), RESTful API Design, Authentication (JWT/OAuth2), Responsive Design, Mobile App Development (Android Studio, JavaScript, Firebase), Microservices Architecture.
- **Cloud & DevOps** - Microsoft Azure, Google Cloud Platform, Docker, Jenkins, GitHub Actions, Linux/Unix Administration, Containerisation & Virtualisation.
- **Database & Storage** - MySQL, PostgreSQL, SQLite, MongoDB, Firebase.
- **Software Engineering Concepts** - OOP, Data Structures & Algorithms, Design Patterns, System Design, Agile & Scrum, SDLC, Software Testing (pytest, JUnit), Version Control (Git, GitHub), Cloud Architecture, API Integration, Load Balancing

Soft - Skills

- Problem-solving and analytical thinking developed through complex academic and real-world projects.
- Strong teamwork, leadership, and communication skills demonstrated through group projects and technical collaborations.
- Detail-oriented with a focus on code quality, testing, and continuous improvement.

WORK HISTORY

Website Designer (Remote) – Arasan Travels London | 07/2025 – Present

- Built and launched a travel-booking website using Squarespace with custom HTML/CSS/JavaScript and Google Apps Script integrations.
- Automated booking approvals and Stripe payment reconciliation for 50+ monthly transactions via Apps Script + Google Sheets workflows.
- Developed an end-to-end booking pipeline: Google Forms → Google Sheets schema → automated approval/decline emails to all passengers in a booking (JavaScript/Apps Script).
- Website: www.arasantravels.co.uk

PROJECTS

- **Load Balancer and Cloud Infrastructure Simulation (2024)** | Java · JavaFX · Docker · MySQL
Developed a GUI-based simulation of load balancing and file distribution across Docker containers using three scheduling algorithms. Implemented terminal emulation for UNIX-like commands and integrated SQLite & MySQL for metadata management.
- **AI SupplyChain+ (2024 – Ongoing)** | Python · SQL · AI Forecasting · Flask · Streamlit
Built a cloud-based AI platform for demand forecasting in supermarkets to reduce inventory waste. Implemented Moving Average and Exponential Smoothing models, integrated SQL databases for data storage and dashboards. Expanding to PyTorch forecasting models and AWS deployment.
- **RestoOps (2025)** | React · TypeScript · Tailwind · Supabase
Implemented auth and database integration with Supabase; structured UI with reusable components. Built a responsive operations dashboard for restaurants (orders, staff, and basic analytics).
- **CycleNest REST API (2025)** | Java · JAX-RS · Cosmos DB · External API Integration
Integrated OSRM routing API with error handling/timeouts and repository fallback patterns. Designed REST endpoints for booking and maintenance flows with JSON serialization and validation.
- **FF Smart Fridge (2025–2026)** | Android (Java) · Firebase · Room · ML Kit
Implemented barcode scanning (ML Kit) and local persistence (Room/SQLite) synced with Firebase. Built an inventory app with add/remove items, expiry tracking, and notifications.

CERTIFICATIONS

- **Google Machine Learning Crash Course** - Google Developers (*Completed*)
- **AWS Educate Cloud Foundations** - Amazon Web Services (*Completed*)
- **Microsoft PyTorch Fundamentals** - Microsoft Learn (*Completed*)
- **Data Analysis with Python** - freeCodeCamp (*Completed*)
- **Docker Essentials** - IBM SkillsBuild (*Completed*)