

# HALEEMA IRFAN

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## EDUCATION

### National University of Singapore

Bachelor of Computing in Computer Science

Aug 2023 - Aug 2027

- Specialisation in Artificial Intelligence and Computer Security, Second Major in Data Science and Analytics

### Raffles Institution

GCE A Levels

Jan 2021 - Dec 2022

## TECHNICAL SKILLS

- Programming Languages: Python | C | Java | SQL | Javascript | R
- Frontend development: React | React Native | HTML | CSS
- Backend Development: Node.js (NestJS, Express.js) | Flask
- Database Management: Supabase (PostgreSQL) | MongoDB (NoSQL) | Firebase
- DevOps: AWS | Git
- Scripting & Automation: Bash | Excel VBA

## EXPERIENCE

### Synapxe, Engineering Ops Intern

Jan 2026 - Jun 2026

- Tech used: AWS S3, AWS CLI, Excel VBA, Bash
- Designed and built a configurable UAM tool in Excel VBA that transforms raw client data into standardised access files with user-editable mappings, eliminating the need for technical involvement and reducing manual errors.
- Automated file transfers to and from AWS S3 buckets by engineering Bash scripts in AWS CLI with spooling support, replacing manual data movement workflows and ensuring reliable large-file handling in both non-production and production environments.
- Built an Excel VBA email parser that filters Outlook emails by subject, traverses conversation threads via message IDs to identify parent emails, and extracts onboarding data from the parent to auto-populate a structured Excel sheet — eliminating manual data entry for reporting.

### Domus, Full-Stack Developer

Apr 2025 - Aug 2025

- Tech Stack: React Native, Tailwind CSS, NestJS, Supabase (PostgreSQL), Firebase
- Designed and built a full-stack pilot mobile application to automate residential facility bookings and visitor entries in Sri Lanka, reducing manual workload and manpower dependency
- Designed an N-tier architecture and implemented a RESTful backend using NestJS and PostgreSQL, improving modularity across layers, ensuring scalability, and simplifying future integration.s
- Implemented secure authentication with JSON Web Tokens and SMS-based 2FA, strengthening data security and resident trust
- Produced technical documentation (database schema, product requirements etc.), facilitating smoother knowledge transfer and long-term maintainability

## PROJECTS

### Personal Portfolio, Web Application

- Tech Stack: NextJS, Vercel, Figma
- Built a professional portfolio website to showcase skills and projects, improving personal branding and visibility.
- Designed mockups in Figma to create a consistent visual identity resulting in a cleaner UX and stronger personal branding
- Developed responsive site using Next.js + Tailwind CSS, leveraging reusable components to ensure consistent UI, and faster development iterations
- Deployed with Vercel CI/CD pipelines, automating builds on each commit reducing manual deployment effort and ensuring reliable updates.

### NUS Datathon 2025, Machine Learning Project

- Tech Stack: Python (pandas, scikit-learn, matplotlib)
- Motivated by the challenge of classifying businesses as Global Ultimate vs Domestic Ultimate, where data redundancy and feature imbalance risked reducing model performance.
- Engineered features representative of key business metrics that raised model accuracy.
- Applied correlation matrix analysis and feature importance ranking, reducing noise and simplifying the model.
- Implemented and tuned a Random Forest Classifier in scikit-learn, overcoming class imbalance and achieving 82% accuracy (Global) and 80% accuracy (Domestic).

### Campus Connect, Mobile Application

- Tech Stack: PostgreSQL (Supabase), Express.js, React Native, Tailwind CSS
- Created a mobile app to centralise academic and peer support for university students, reducing fragmented communication.
- Designed database schema in PostgreSQL (Supabase) and built RESTful APIs with Express enabling enabled scalable and reliable data storage for user profiles, posts, and interactions.
- Implemented WebSockets for real-time chat allowing instant peer-to-peer messaging, boosting user engagement and interactivity.
- Prototyped a collaborative filtering feed providing more relevant recommendations, enhancing content discovery and personalisation.