Shaffan Aleem

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EDUCATION

University of Liverpool — Liverpool, UK
Bachelor of Science in Computer Science with Honours

EXPERIENCE

Lead Backend Engineer — May 2025 – Present
Homi — *Remote*

- Enforced RLS policies on database tables for Admins, Landlords and Renters to prevent unauthorized data access
- Built login Edge Function to validate credentials handle errors and issue JWT tokens ensuring **secure sign-ins**
- Implemented rate-limit middleware on swipe endpoints to block spam and cut abuse by **75%**
- Created SendGrid templates and retry logic for swipe match and chat emails to guarantee **100% delivery**
- Authored smoke tests covering payments subscriptions and notifications to catch **critical bugs**
- Automated CI deployment of Firestore rules and Supabase migrations to cut manual checks by **90%**

IT Technician (Software Engineering & Database Administration) — February 2025 – Present
Diagnostic World — *Remote, UK*

- **10.74x report delivery rate** through optimized HL7 message resending
- Reduced manual labour **by 85%** through automating tasks by writing a custom Go binary
- Identified and reported **7 security vulnerabilities**, enhancing system security and mitigating potential risks
- Boosted **Jira ticket closure rate by 165%** through streamlining workflows and improving task prioritization
- Devised cross-cloud backups to Azure and AWS to restore platform in **under 5 minutes**
- Automated database migrations and backups with CI scripts to ensure **minimal downtime**
- Administered and interacted with a PostgeSQL database hosted on AWS with **millions of table rows**

PROJECTS

GoSearch | *Go, Goroutines, JSON, HTTP Client, Cybersecurity* — November 2024 – Present

- Built GoSearch to index OSINT data from **hundreds of websites** for cybersecurity analysts
- Implemented Goroutines for concurrent fetching to cut search latency by **94%**
- Gained **2000 stars** and **200 forks** on GitHub
- Attracted **8 contributors** and counting for feature expansion
- **Featured on the osintletter** and spurred multiple articles

Homi – Swipe. Match. Move In | *Next.js, TypeScript, Supabase, Firestore, Vercel, Stripe* — May 2025 – Present

- Defined RLS on user profile and listing tables to block unauthorized reads and writes and achieve **zero breaches**
- Built login Edge Function to validate credentials and issue JWT tokens and enforce secure sign-ins
- Created swipe matching API and rate-limit middleware to cut spam by **75%**
- Authored SendGrid templates and retry logic for match and chat emails to ensure **100% delivery**
- Wrote smoke tests for payments subscriptions and notifications to catch **100% of critical bugs**

TECHNICAL SKILLS

Languages: Typescript, JavaScript, Go, Java, Python, PostgreSQL, HTML/CSS, Tailwind CSS
Frameworks: React, Node.js, Next.js, ExpressJS
Developer Tools: Git, Docker, Amazon Web Services, Vercel, Supabase, Redis, VS Code, MongoDB, Firestore
Libraries: OpenAI, Pandas, NumPy, Matplotlib, shadcn