

Karim Aly

Software Engineer



li-Karim Aly



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EDUCATION

UNIVERSITY OF SUSSEX | MSc IN ADVANCED COMPUTER SCIENCE

September 2023 – September 2024 | Sussex, UK

- Distinction Class

UNIVERSITY OF LEEDS | BSc IN COMPUTER SCIENCE WITH ARTIFICIAL INTELLIGENCE

September 2018 – June 2021 | Leeds, UK

- 2:1 with Hons

LEEDS INTERNATIONAL FOUNDATION YEAR | FOUNDATION IN COMPUTER SCIENCE

September 2017 | Leeds, UK

- First Class Hons

EXPERIENCE

STANDARD CHARTERED VENTURES – MYZOI FINANCIAL INCLUSION | FRONTEND ENGINEER

October 2024 – Present | Dubai

- Built production-grade **Web Portal** modules (dashboards, payments, user groups, **maker-checker**) using **React**, **Next.js**, **TypeScript**, **RTK Query**, **React Query**, **Zustand**, **MUI**, and secure REST integrations.
- Implemented scalable frontend architecture with reusable components, **design system patterns**, API abstraction layers, and role-based access; contributed to discussions on **microfrontend adoption**.
- Developed data visualizations using **D3.js** and built interactive 3D elements with **Three.js**; delivered performance optimisations (SSR/ISR, memoization, code-splitting).
- Integrated frontend with **AWS Lambda**, API Gateway, S3; improved DX using Vite, ESLint, Prettier, and Storybook for component-driven development.
- Created automated test suites with **Cypress**, **Playwright**, **Testing Library**, and Jest; improved observability using **Datadog** dashboards.
- Partnered with product to define **PRDs**, technical specs, and MVP milestones; led **agile ceremonies** (refinement, planning, stand-ups, reviews, retros).

ARAB AFRICAN INTERNATIONAL BANK | SOFTWARE DEVELOPER

October 2021 – September 2022 | Cairo, Egypt

- Delivered AAIB's first digital **banking mobile app** and **web portal** using **React**, **React Native**, **Node.js**, and **Redux**, integrating securely with banking and payments APIs.
- Built transaction dashboards, payment flows, user-group management, entitlement controls, and **maker-checker** approval processes for enterprise-grade financial operations.
- Enhanced performance using lazy loading, caching, API batching, and optimized bundle size; contributed to CI pipelines using **GitHub Actions** and **Jenkins**.
- Collaborated with stakeholders, wrote user stories, and managed delivery in **Scrum** teams using Jira.

CERTIFICATIONS

ATLASSIAN UNIVERSITY | AGILE WITH ATLASSIAN JIRA

July 2025

SKILLS

FRONTEND

React.js / React Native
Next.js • TypeScript
RTK Query • React Query
Zustand • Redux
TailwindCSS • MUI
D3.js • Three.js
Storybook • Vite
Webpack • Accessibility (a11y)

TESTING & QUALITY

Cypress • Playwright
Testing Library • Jest
Unit / Integration / E2E Testing
Performance & Security Best Practices

BACKEND & APIS

Node.js • Express
REST • GraphQL
SQL • MongoDB

CLOUD & DEVOPS

AWS (Lambda, API Gateway, S3, CloudWatch)
Docker • CI/CD
GitHub Actions • Jenkins
Git • OpenTelemetry

MERIT AWARDS

UNIVERSITY OF LEEDS

INTERNATIONAL STUDENT SCHOLARSHIP
Leeds, UK
Awarded for maintaining 2:1 or First Class standing.

EXTRA CURRICULAR

GRYPHONS AMERICAN FOOTBALL

WON NORTHERN CHAMPIONSHIP;
PROMOTED TO DIVISION 1
2020 | Leeds, UK