Ahmed Osman

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EDUCATION

King's College London   London, UK
Bachelor of Science in Computer Science   *Sep. 2021 – June 2025*

EXPERIENCE

Software Engineer   June 2024 – Aug 2024
J.P. Morgan — Internship   *London, UK*

- Optimised CI/CD pipelines of a Single Dealer Platform, speeding up product delivery by up to 60%
- Developed an full-stack application using Next.js, Express.js and Prisma to provide teams with build metrics to assess the impact of changing development processes
- Maintained a cache of build performance by scraping Jenkins data and storing within a PostgreSQL database via Prisma, providing teams with a historical analysis of trends of project performance
- Configured robust pipelines for the application, creating pattern build files to facilitate building and hosting of the project whilst utilising Grafana to enable monitoring for the project
- Enhanced application reliability by safeguarding via unit testing with Vitest, utilising mocking techniques with React Testing Library
- Presented to 2 directors and 50+ developers, highlighting appś impact on release acceleration, sparking interest from other departments.

Software Engineer   July 2023 – June 2024
Zebra — Placement   *London, UK*

- Developed a SaaS for managing large business operations supporting up to 5 million users, using React & TypeScript
- Employed Micro-Frontends to abstract and decouple the project, allowing for development of project to be easier
- Implemented infinite pagination with Tanstack Infinite Query, reducing data-fetching expenses by fetching data in batches, enhancing user experience and responsiveness
- Revamped an extensive UI Library to support both mobile and web applications with Flutter and Web Components respectively, coordinating with UX teams to deliver up to 100+ user-friendly, robust components
- Automated the updates of design tokens throughout the different libraries, by scraping them from Figma, and converting them into usable Dart and CSS code.

PROJECTS

PolyPal — *Next.js, Express.js, Socket.io, Peerjs, Docker, Cloudflare, VPS*   app.polypal.org

- Created a video chatting platform to connect language learners
- Developed using Socket.io to handle direct communication between two users with PeerJs to handle peer-to-peer transmission of audio and video
- Hosted application by 'Dockerizing' and deplyoing on a cloud VPS, utilising cloudflare tunnels for domain protection

Google BGN Hackathon Winner — *React Native, MySQL, Google Cloud Platform*   Oct 2022

- Developed a mobile application with a team of 5 which allowed users to share stories only accessible in the location recorded, using React Native and MySql
- Utilised Google Cloud Platform API's for handling of Geolocation, providing accurate location data
- Pitched to a panel of directors and won 1st place

TECHNICAL SKILLS

- Java | Python | C++ | Scala | JavaScript | TypeScript | React | Flutter | Next.js | Node.js | HTML5 | CSS3
- Jenkins | Git | Docker | GRPC | Graphana | Postgresql | Prisma | Cloud VPS | TanStack | GraphQl
- CI/CD Pipelines | Microservices | Unit Testing | E2E Testing | SAFe Agile | Frontend | Backend | Fullstack