Edrich Rocha

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PROFESSIONAL SUMMARY

Senior Full Stack Engineer with 9+ years shipping production web applications end to end across fintech and AI domains - from polished React frontends to Python backend services and the data flows behind them. At Core42 (G42 group), build Python (FastAPI) REST APIs powering GenAI applications with LangChain, LangGraph, and CrewAI, paired with ReactJS and TypeScript interfaces. At Mashreq Bank, architected large-scale online banking and payments platforms - accounts, cards, loans, transfers, and KYC - serving millions of users across the UAE. Strong individual contributor who codes daily, owns features from spec to production, and cares about performance, reliability, and clean, well-tested code. Experienced mentoring engineers, driving code reviews, and delivering via CI/CD on Azure.

CORE COMPETENCIES

Full Stack (React + Python) | Python & FastAPI | React & TypeScript | React Native (Mobile)

REST & GraphQL API Design | Relational Databases (PostgreSQL) | Cloud Infrastructure (Azure) | CI/CD & Testing

Fintech & Banking Systems

WORK EXPERIENCE

Core42 (G42 Group)

Aug 2024 - Present

Specialist, Application Development | Abu Dhabi, UAE

- **Built Python (FastAPI) REST APIs and backend services** powering GenAI applications end to end - orchestrating LLM workflows and multi-agent pipelines with LangChain, LangGraph, and CrewAI, integrated with Azure AI services.
- **Delivered full-stack features from database to UI,** pairing Python backend services with ReactJS and React Native frontends for real-time AI conversational products.
- **Built the Sahatna healthcare platform mobile app** in React Native for the Department of Health - a cross-platform application delivering healthcare services to end users.
- **Designed well-structured APIs and data flows** connecting frontend clients to backend services and internal AI/ML systems, with secure Azure Cognitive Services authentication.
- **Created reusable React and TypeScript component libraries** and maintained CI/CD pipelines via Azure DevOps, with Jest test coverage across feature modules in a fast-moving product environment.

Mashreq Bank

Nov 2019 - Aug 2024

Senior Dev Engineer | Dubai, UAE

- **Owned features end to end** across a large online banking and payments platform - accounts, cards, loans, investments, transfers, bill payments, and KYC - taking work from spec and design through implementation, testing, and production.
- **Designed and integrated REST and GraphQL APIs** with backend vendors across Italy and India, coordinating API contracts and sprint alignment to ship reliable, data-sensitive banking flows.
- **Built fast, intuitive banking interfaces** in ReactJS and Angular - 12+ lazy-loaded modules with gzip bundle optimization - making complex financial workflows feel simple for millions of UAE users.
- **Delivered a React Native mobile banking app** (Android/iOS) covering biometric KYC, document vault, and payment flows, with native bridge integrations and Jest test coverage.
- **Received 4 performance awards** including CEO Club and Wall of Fame (2022, 2023) for sustained delivery quality and cross-team collaboration.

Clicktap Digital Technologies

Oct 2017 - Nov 2019

Technical Lead | Dubai, UAE

- **Mentored and reviewed code** for a team of 3-5 engineers on Mashreq Bank's core banking portal - established PR templates, review checklists, and pair programming cadence to raise technical quality.

- **Managed offshore delivery,** assigned tasks, coordinated Git workflows on Bitbucket, and maintained architecture and code quality across concurrent banking streams.
- **Drove hiring and screening,** growing team capacity from 2 to 5 engineers, and worked directly with client stakeholders to scope and deliver complex requirements.

Arkecode Private Ltd

Jul 2016 - Aug 2017

Full Stack Developer | **Goa, India**

- **Shipped 10+ web applications end to end** as a full-stack developer - booking systems, e-commerce, hotel management, and property search - building both frontend and backend.
- **Built backend services with Ruby on Rails and PostgreSQL** and frontends with Angular, EmberJS, HTML5, and SCSS, with test cases written for all methods.

KEY PROJECTS

GenAI Backend Services (Core42)

Python (FastAPI) REST APIs and backend services powering generative-AI applications, orchestrating LLM workflows and multi-agent pipelines with LangChain, LangGraph, and CrewAI, integrated with Azure AI services and consumed by React web and mobile clients.

Python, FastAPI, REST APIs, LangChain, LangGraph, CrewAI, Azure AI Studio, ReactJS, TypeScript

Mashreq Online Net Banking

Enterprise online banking and payments platform with 12+ Angular lazy-loaded modules covering accounts, cards, loans, investments, transfers, and bill payments. REST/GraphQL API integrations and gzip-compressed bundle architecture optimized for production performance across the UAE.

ReactJS, Angular, TypeScript, REST APIs, GraphQL, HTML5, SCSS, Azure DevOps

Sahatna - Healthcare Platform (Department of Health, Core42)

Cross-platform React Native mobile application for the Department of Health's Sahatna healthcare platform, delivering healthcare services to end users with reusable UI components and secure API integrations.

React Native, Expo, TypeScript, REST APIs, Jest

AI Chat Portal (Core42)

Full-stack real-time LLM conversational product - ReactJS web portal and React Native mobile app backed by Python services, with streaming responses, multi-language support, analytics, and secure Azure Cognitive Services authentication.

Python, FastAPI, ReactJS, React Native, TypeScript, Azure AI Studio, GraphQL, REST, Jest

Mashreq Mobile Banking

Full-featured React Native mobile banking app (Android/iOS) with biometric KYC (EFR Liveliness), document vault, payment and investment flows, and native bridge integrations. Reusable component library with theme system and Jest test coverage.

React Native, TypeScript, Jest, Native Bridge (Android/iOS), REST APIs, CMS Integration

TECHNICAL SKILLS

Backend: Python, FastAPI, REST API design, Ruby on Rails, GraphQL, PostgreSQL

Frontend: ReactJS, React Native, Next.js, Angular, TypeScript, JavaScript (ES6+), Redux, MobX, HTML5, SCSS, TailwindCSS, Material UI, Bootstrap

AI/GenAI: LangChain, LangGraph, CrewAI, Azure AI Studio, Azure Cognitive Services, LLM/RAG integration

Cloud & DevOps: Azure, Azure DevOps, GitHub Actions, Docker, CI/CD **Testing:** Jest, Unit Testing **Build Tools:** Webpack, Vite, Babel

Mobile: React Native, Expo, Flutter **CMS:** Sitecore, Tridion, Strapi **Design:** Figma, Sketch **Languages:** English, Hindi, Konkani

EDUCATION

Bachelor of Computer Engineering - Goa University, India 2012

Angel Institute of Technology and Design

AWARDS & RECOGNITION

Mashreq CEO Club and Al Safwa - The Elite Club 2021, 2023

Outstanding Performance Award 2020, 2021, 2022

Wall of Fame 2022, 2023