

Ricky Adriell

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[LinkedIn](#) | [GitHub](#) | [Portfolio](#)

Software Engineer experienced in designing, developing, and deploying scalable software solutions. Passionate about creating innovative applications and continuously learning new technologies to enhance software performance and user experience. Always seeking opportunities to further develop technical skills and contribute to impactful projects in a collaborative environment.

Work Experience

Software Engineer / Unlocked Homes (startup) / London, UK / 03/2024 - Present

AI-powered home-buying assistant designed to simplify the property search process | [unlocked.homes](#)

AWS (AppSync, Amplify, Lambda, Cognito, Lambda, DynamoDB), Python, TypeScript, React, Serverless Framework, GraphQL

- Designed and implemented serverless GraphQL APIs using Python, TypeScript, GO, AWS AppSync and DynamoDB, centralising server requests and improving efficiency by 44% for mobile and web app
- Developed an internal tool using GO to process over 40 million property records, leveraging GO routines for efficient concurrent processing.
- Collaborated with cross-functional teams to define the product vision and translate business needs into scalable backend solutions, contributing to innovative property recommendation features.
- Engineered a secure, fault-tolerant authentication system by integrating AWS Cognito and OTP verification, reducing onboarding time and enhancing user security.
- Led the development of a real estate agent dashboard using Next.js, React and TypeScript, allowing agent to manage property
- Created an AI serverless web scraper using OpenAI API to convert unstructured property data into structured formats
- Developed a pipeline for automated property recommendations using AWS EventBridge and Step Functions, enhancing operational efficiency.
- Built an image classification service using Python and OpenAI API to annotate images, improving AI image renovation accuracy
- Created and maintained CI/CD pipeline with GitHub Actions, reducing deployment time by 80%
- Utilised the Serverless Framework for infrastructure as code (IaC), enhancing scaling infrastructure seamlessly.

Software Developer / Reputy.io (startup) / London, UK / 07/2023 – 03/2024

Soul-bound talent wallet showcasing transferable skills | [reputy.io](#)

Nx, React, Typescript, Node.js, Jira, MUI, Figma, Eraser, Git

- Built a secure user authentication system leveraging Firebase Authentication, enhancing identity management and improving application security.
- Contributed to the backend architecture, optimising the product launch timeline by ensuring robust backend integration with scalable solutions.
- Collaborated in a cross-functional team to develop core B2B features, aligning with business needs and enhancing product functionality.
- Developed a talent dashboard using React, MUI, TypeScript, Redux Toolkit, webpack and react-router-dom enhancing product functionality and user experience.

Project

Kazi | [kazihub.co](#)

AWS (Gateway, Lambda, SAM), Git, GitHub Actions, OpenAI API, Python, TypeScript, GO

- Developed a scalable job tracking backend using AWS Lambda and Serverless Application Model (SAM), enabling real-time data management for job applications.
- Built an AI-driven interview preparation service using OpenAI API and AWS Lambda, generating questions to help users refine interview skills.
- Automate deployment pipelines with GitHub Actions, reducing manual tasks and improving deployment reliability for consistent releases.

Skills

Languages & Frameworks: Go, Rust, TypeScript, Node.js, JavaScript, Python, Django, React, Redux, Zustand, Next.js

Cloud & DevOps: AWS (Gateway, Lambda, AppSync, DynamoDB, EventBridge, Step Functions, Cognito, IAM), Docker, CI/CD, GitHub Actions, GCP & Firebase (Authentication, Store, Host, gcloud)

APIs: GraphQL, REST, WebSocket, OpenAI API

Tools: Git, AWS SAM, Serverless Framework, SQL, NoSQL, MongoDB, SQLite, Postman, Jest, Vitest

Awards and Certifications

2024 | Outstanding Mentor Award | 01Founders

2023 | Rust Programming | 01Founders

2023 | JavaScript Programming | 01Founders

2023 | GO Programming | 01Founders

2019 | Python | Coursera

Education

Software Engineering / 01Founder, London, UK / 01/2022 – 07/2023 | [GitHub Repository](#)

- Built and collaborated for over 20+ projects with Go, JavaScript, TypeScript, Rust, React, HTML, CSS, SQL, Docker, Postman, GitHub, Git

L3 NFD in Information Technology / Lambeth College, London, UK / 07/2020 – 07/2021

- Systems Management, Advanced Programming Techniques, and Data Modelling