

# KEITH CORRIGAN

## Senior Software Engineer

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### Summary

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A results-oriented Senior Software Engineer with over 12 years of experience in designing, developing, and testing experience on everything from mobile software and web applications to protocols and APIs. Strong emphasis on advanced frameworks and best practices which reduce the development cost of software while improving quality. Proven track record of leading projects from planning to launch, on time and within budget. Enjoy working with a team of talented members collaboratively solving problems and building inspiring products.

### Experience

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#### Fortunes Tech

Liverpool, UK

#### Senior Software Engineer

05/2021 - Present

IT Services and IT Consulting

- Mentored and provided technical guidance to an engineering team of 10+ members.
- Spearheaded the transition of online educational platform from **LAMP** stack to modern **NextJS** & **React Native**-based architecture, resulting in a remarkable 300% increase of client company's revenue.
- Implemented high-performance **RESTful API** endpoints using **Node.js** and **Nest** Framework.
- Designed **Postgres** database for microservices and optimized its performance by implementing advanced indexing strategies and query optimization.
- Led and participated in the development of various web and mobile applications including Renude, Relik and MentionMe using cutting-edge technologies, including **React**, **React Native**, **Next.js**, **Node.js**, **Golang**, **Python**, and **Laravel**.
- Actively contributed to code reviews, ensuring code quality, maintainability, and adherence to best practices.
- Strong background in cloud computing, including **AWS**, **GCP**, **Docker** and **Kubernetes**, proficient in designing and implementing cloud architectures, deploying and managing applications.
- Worked on CI/CD tools like **Jenkins** to automate the build process from version control tool into testing and production environment.

#### VelocityGlobal

Denver, CO USA

#### Senior Software Engineer

05/2020 - 05/2021

Software Development

- Served as one of the lead engineers in the development of Customer Experience Platform(CXP)-SaaS product of the company with a team of senior developers leveraging **React**, **NextJS**, **Golang**, **GraphQL**, **Docker**, and **AWS**.
- Developed RESTful webservices and microservices using Golang for reading large volume of data from **Postgres** database.
- Laid and designed architectural foundation of **GraphQL** layers for transport route optimization and billing automatization.
- Built a semi-auto mechanism which synchronously migrates CXP database into Glean data source using **React**, **Node**, **Python** and **Glean APIs**, resulting in a 30% improvement in speed and accuracy of data searching.
- Participated in the development of Document Management Platform(DOCX), providing **AWS Lambda**, **FormKiQ** and **OPA** solutions, and building high-performance **RESTful APIs** using **TypeScript** and **NodeJS**, handling an average of 1,000 large-scale requests per hour.
- Collaborated with staff and principal engineers to provide proof of concept, TDD, and design and develop robust solutions to meet product requirements.
- Mentored less experienced team members to follow the advanced development principles and methods.

#### Cognizant

London, UK

#### Software Engineer

07/2017 - 04/2020

IT Services and IT Consulting

- Collaborated with design team to create a custom **JavaScript UI** framework used across the company's internal projects, which improved development efficiency by 30% and ensured consistent branding and UI across the application.
- Led the end-to-end development process, including database design, frontend and back-end development, and **AWS** deployment, utilizing **Node**, **React**, **React Native** and **MongoDB** as the tech stack.
- Overcame the challenge of limited payment integration options in Malaysia by conducting extensive research and selecting the best available service.
- Successfully delivered the MVP within a tight timeframe of just 6 months, ensuring its successful adoption by customers who are actively utilizing the platform's car and motorcycle lending services.
- Developed BOTs for car renting and property management services using **Chatfuel**, **Facebook**, and **Dialogflow BOT** frameworks for Facebook Messenger.
- Worked on managing the **Git workflow**, reviewing the completed tasks and conducting the code reviews.

## Experience

### SureSkills

Belfast, UK

#### Software Engineer

05/2015 - 06/2017

Information Technology & Services

- Worked with a team of developers to migrate the existing UI from **AngularJS** to **React**, adding an extensive list of new features, unit tests and e2e tests for all features, key users, and roles.
- Implemented microservice architecture to upgrade efficiency of CRM system by 40%.
- Integrated a third-party identity service, **OKTA**, and related UI flows, including account activation, login, forgot password, and session management using JWT, token validation, and session cookies.
- Assisted in enhancing the schema for a **RESTful API** to optimize its consumption by **Apollo** Client.
- Revamped the entire components and pages following the new **Figma** designs.
- Supported the CTO with various management tasks as high-level architectural decisions.

### SureSkills

Belfast, UK

#### Frontend Engineer

11/2013 - 04/2015

Information Technology & Services

- Spearheaded the frontend development of ecommerce web applications using **React**, **Redux**, **Typescript**, **MUI**, **Bootstrap**, **SCSS**, etc.
- Refactored the client-side of applications into a reliable SPA architecture.
- Provided seamless user interface, kanban board, data visualizations, and designed overall user experience.
- Wrote high-quality code which covered 100+ unit and e2e tests to verify the functionality of UI components and overall workflow.
- Stayed updated with the latest **React** and **React Native** trends and libraries to enhance the app's competitive edge.
- Provided powerful support to senior developers after becoming proficient in React and frontend technologies, resulting in a stronger, more efficient tech team.

### Version 1

Belfast, UK

#### Software Engineer

05/2012 - 10/2013

IT Services and IT Consulting

- Developed the performance analytic tools utilizing **PHP frameworks** with senior developers, and focused on standard workflow & best practices.
- Learnt efficient work culture including **Git** and **Agile** methodologies.
- Increased site traffic by providing user-oriented visuals and features using programming languages, including **JavaScript** and **PHP**.
- Utilized tools like **LESS** and **SASS** for **CSS** development.
- Developed **iOS** & android mobile applications from scratch to deploy.
- Participated in the bootcamp sessions to learn and implement **JavaScript** and **PHP** framework basis.

## Education

### Ulster University

Belfast, Northern Ireland

#### B.S. in Information Technology

09/2008 - 04/2012

## Skills

Full Stack Development · Technical Leadership · Test-Driven Development · Agile Development · Solution Architect

Client-Side:

React.js · Next.js · VueJS · NuxtJS · Angular · D3 · Redux · React Native · Flutter · Storybook · Bootstrap · Tailwind CSS · MUI · Ant Design · MobX · Zustand · Figma · Adobe XD

Server-side:

NodeJS · Express · NestJS · Django · Fast API · Flask · Laravel · Golang · Elixir · Redis · GraphQL · Elasticsearch · MySQL · PostgreSQL · MongoDB · DynamoDB · AWS · Azure · Firebase · Supabase

Development & Operations:

Jenkins · JUnit · NUnit · PyUnit · Mocha · Jest · Scrum · Agile · GIT · Kafka · HubSpot · Docker · Kubernetes · Jira · Azure DevOps