

# Zachary Richardson, Senior Software Engineer

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## LINKS

<https://www.linkedin.com/in/zach212/>, <https://www.zachrichardson.dev/>

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## PROFILE

I am a seasoned full-stack software engineer with over 8 years of expertise, specializing in React, Node.js, Python, and Golang. My comprehensive skill set in both front-end and back-end development enables me to build robust, scalable applications with a focus on performance and user experience. I excel at designing and implementing innovative solutions that deliver seamless and intuitive user interactions while maintaining high code quality and efficiency.

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## EMPLOYMENT HISTORY

Jul 2024 — Jan 2025

### Senior Software Engineer, Exavalu

- Designed and developed the complete frontend for a third-party Auto eFNOL (Electronic First Notice of Loss) flow, ensuring a pixel-perfect UI/UX based on Figma designs.
- Built a highly maintainable and scalable React.js application using TypeScript, React Context, and Redux for efficient state management.
- Wrote comprehensive unit and integration tests, ensuring reliability and stability across all application components.
- Developed and optimized API Gateway and AWS Lambda functions (private and public layers), integrating Guidewire gRPC APIs for seamless backend communication.
- Enhanced system performance and error tracking by setting up Splunk dashboards, reducing debugging time and improving operational efficiency.
- Leveraged AWS services to build a robust and scalable architecture, ensuring high availability and cost efficiency.

Skills: React.js, Node.js, Redux.js, TypeScript, AWS Lambda, AWS API Gateway, AWS CloudWatch, Splunk, Guidewire, HTML5, CSS3, Figma, Unit Testing, eFNOL

Oct 2022 — Jun 2024

### Senior Software Engineer, Endeavor

- Developed a virtual meeting platform to book world-class speakers via virtual events and the entire process, from finding a speaker to booking them for event, occurs directly.
- Contributed to implementing high-performance microservices utilizing Golang and Node.js, tailored for scalability and minimal latency.
- Implemented efficient & re-usable APIs using React Hooks & React-Query.
- Designed and built a React-based library allowing for element-based responsive design, allowing for the creation of components that are highly portable.
- Contributed on the rationale for the front-end implementation of several features that included payment processing, bookings and customer relationship management.
- Reduced infrastructure costs by 50% through server migration, better caching on the front end, improving the deployment system, and transforming the most viewed pages from dynamic to static pages with Next.js.
- Produced and maintained highly documented code using test-driven development.
- Hosted on AWS and embraces a micro-service architecture built with AWS Amplify.

Skills: React.js, Material-UI, Styled-Components, React Hooks, React Query, Go, Go-Gin, Node.js, Express.js, Swagger, Next.js, HTML5, CSS3, AWS

Oct 2019 — Jun 2022

### Software Web Developer, Integriti

- Created a real-time data visualization platform with React.js and TypeScript, utilizing Highcharts and D3 for advanced visualizations and WebSocket for seamless real-time data transfer.
- Designed and optimized OMERS landing pages using Contentful for the backend and React.js (TypeScript) for the frontend, improving performance and demonstrating expertise in Contentful architecture.
- Developed a React-based single-page application (SPA) integrating Web3 to enable innovative crypto swap functionality, supporting one-to-many and many-to-one exchanges.
- Responsible for MLOps to leverage ML models for Websites using Python, Flask, AWS EC2, S3, SQS, and SNS.
- Designed fully scalable & stable infrastructure for the world-first iNFT platform on AWS.
- Integrate machine learning models with Blockchain technology to create iNFT.
- Worked as a full-stack developer covering server admin, Nginx, MongoDB, Node.js, and front-end components.

Skills: React.js, Python, Flask, Django, TypeScript, HighCharts, D3.js, WebSocket, Blockchain, Nginx, MongoDB, Node.js, Express.js, Contentful, CMS

## Web Developer, TopTal

- Developed and maintained an online invoicing platform with millions of invoices and transactions and communication.
- Designed and delivered the business process of collecting payments and distributing funds to sellers using Stripe Connect.
- Tested and gradually refactored a task scheduling system.
- Improved code quality by introducing test-driven development and a culture of conducting regular code-reviews by the team.
- Built a video conference mobile application with React Native, TypeScript, Redux, and the Twilio API with Python for the REST API.
- Created a web-based admin panel to track devices, transfer files, and ring devices remotely.
- Developed a web-based super admin panel to manage users and subscriptions, and track usage statistics.

Skills: React.js, Node.js, TypeScript, AWS, JavaScript, HTML5, CSS3, Python, Django, Stripe Connect, Redux.js, React Native, Twilio, Swagger API

## EDUCATION

2017 — 2019

Master's degree in Information Technology, Texas A&M University

2013 — 2017

Bachelor's degree in Computer Science, Texas A&M University

## SKILLS

|                   |             |             |             |
|-------------------|-------------|-------------|-------------|
| React             | Expert      | Material-UI | Expert      |
| Node.js           | Expert      | TailwindCSS | Experienced |
| Python            | Expert      | Playwright  | Experienced |
| Golang            | Skillful    | Cypress     | Experienced |
| JavaScript        | Expert      | Swagger     | Experienced |
| TypeScript        | Expert      | Git         | Expert      |
| React Native      | Skillful    | PostgreSQL  | Experienced |
| Next.js           | Experienced | MySQL       | Experienced |
| Express           | Expert      | MongoDB     | Experienced |
| Django            | Experienced | Snowflake   | Skillful    |
| Flask             | Skillful    | Kafka       | Experienced |
| NestJS            | Experienced | WebSocket   | Experienced |
| Apollo            | Skillful    | Prometheus  | Skillful    |
| GraphQL           | Experienced | Grafana     | Skillful    |
| Redux             | Experienced | Datadog     | Skillful    |
| React Query       | Expert      | Web3        | Skillful    |
| Styled-Components | Expert      | Blockchain  | Skillful    |
| AWS               | Expert      | HTML5       | Expert      |
| Docker            | Skillful    | CSS3        | Expert      |
| Kubernetes        | Skillful    |             |             |

## HOBBIES

Basketball, Learning, Playing Piano