Zachary Richardson, Senior Software Engineer

714 Conlen Ave, Dalhart, 79022, United States, +17032918418, zacharyrichardson212@gmail.com

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LINKS

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

PROFILE

I am a seasoned full-stack software engineer with 10+ 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.

EMPLOYMENT HISTORY

Jul 2024 — Current

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.
- Implemented caching strategies using Redis to improve application performance and scalability.

Skills: React.js, Node.js, Redux.js, TypeScript, AWS Lambda, AWS API Gateway, Redis, 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 Redis caching and optimized DB queries for real-time data retrieval.
- Implemented efficient & re-usuable 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

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, also React Native mobile application for data visualization, integrating push notifications and offline caching.

- 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, Bockchain, Nginx, MongoDB, Node.js, Express.js, Contentful, CMS

Oct 2017 — Jun 2019

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 Twillio 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, Twililo, 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	Node.js	Expert
Python	Expert	Golang	Skillful
JavaScript	Expert	TypeScript	Expert
React Native	Skillful	Next.js	Experienced
Express	Expert	Django	Experienced
Flask	Skillful	NestJS	Experienced
Apollo	Skillful	GraphQL	Experienced
Redux	Experienced	React Query	Expert
Styled-Components	Expert	AWS	Expert
Docker	Skillful	Kubernetes	Skillful
Material-UI	Expert	TailwindCSS	Experienced
Playwright	Experienced	Cypress	Experienced
Swagger	Experienced	Git	Expert
PostgreSQL	Experienced	MySQL	Experienced

MongoDB	Experienced	Snowflake	Skillful
Kafka	Experienced	WebSocket	Experienced
Prometheus	Skillful	Grafana	Skillful
Datadog	Skillful	Web3	Skillful
Blockchain	Skillful	HTML5	Expert
CSS3	Expert		

HOBBIES

Basketball, Learning, Playing Piano