

Kevin Ruffe

Senior full-stack software engineer with 9 years of proven experience building APIs and web-based applications. Having architected, built, and customized, deployment pipelines, database schemas, GraphQL/REST APIs, UI frontends, CMSs, and ecommerce systems, my existing skill-set and my prior knowledge are ready assets.

 [in/kevinruffe/](https://www.linkedin.com/in/kevinruffe/)

DETAILED JOB HISTORY

PwC / Kunai

*Senior Software Engineer (Contracting inside **Capital One**)*

Apr 2023 - Present

- Composed backend endpoints in Go for our session management microservice on AWS Lambda leveraging the minimal HTTP framework Chi, while employing SAM CLI, Docker and NoSQL Workbench for local development.
- Prototyped a new use case for Capital One's AirKey technology in full-stack TS on AWS Fargate with a Hono-based REST API and a Qwik/Astro frontend
- Developed our Volunteerism application in TypeScript, specializing in architecting & building the backend REST-like API.
- Created a series of library functions and utilities that could be leveraged across all of our AWS Lambda functions in two separate APIs, including but not limited to authentication helpers, a custom middleware engine, error-handling and API response generation functions to pave the way for rapid backend development.
- Tackled the development of React UI components to further project UX, created our data-fetching React hook used across all components, handled Ping SSO setup and Docker SSO development environment, supporting the front-end team's focus on page/workflow level development.
- Designed our PostgreSQL database schema, triggers/functions and a local Docker-based DB environment, allowing data to be stored in a normalized fashion.

LANGUAGES

Go | TS/JS

PHP | CSS

FRAMEWORKS

Chi | Hono | React |

Next | Vue | Hono |

Fastify | Qwik | Astro |

Nest

DATABASES

PostgreSQL | MySQL |

MongoDB | DynamoDB

OS

Linux | MacOS

TOOL

Docker | Git

AWS CLOUD

ECS/Fargate | Lambda

| EC2 | RDS | ALB |

IAM | CodePipeline |

API Gateway |

DynamoDB

EDUCATION

University of Vermont

Burlington, Vermont

Kevin Ruffe

DETAILED JOB HISTORY (cont.)

- Orchestrated the deployment of APIs on AWS Lambda while overcoming multi-region challenges by configuring application load balancers.
- Wrote BDD component tests for the session management microservice with GoDogs to be run in our CI/CD pipeline.
- Employed "One Pipeline," a Jenkins-based approach, to automate deployment processes, using YAML files (Bogie files) and AWS CloudFormation templates to specify necessary configurations.
- Tested our TypeScript application code with Jest for backend unit testing and Jest/React Testing Library for frontend unit testing, bolstering the quality and resiliency of our codebase.
- Generated and transmitted application-level logging to Capital One's OneStream platform (which in turn connected to One Lake, a data lake) to expand visibility into application usage and to better surface any application errors.

Certificate in Computer Software

Rutgers University

New Brunswick, NJ

BA in English Literature,
Minor in Philosophy

Climate Club

Senior Software Engineer

Oct 2022 - Apr 2023

- Produced a REST API with Nest.js (Node.js/TS), allowing for maximum flexibility with regards to our UI layer and reporting.
- Crafted a Next.js/React/Tailwind client application that enterprise companies used to "gamify" their employee's Scope 3 emissions reduction goals, helping combat climate change in an often overlooked way.
- Deployed & validated our REST APIs code via functional and unit tests run on GitHub Action pipelines, automating our deployment process.
- Enabled the hosting of our client-side Single Page Application on Vercel to allow smooth & swift front-end deployments.

Clarus Solutions LLC

Software Engineer

Apr 2021 - Oct 2022

- Designed and developed a GraphQL API for external consumption with Fastify (TS/Node.js) and Mercurius, allowing clients to query a variety of data generated through the use of our services.

Kevin Ruffe

DETAILED JOB HISTORY (cont.)

- Fashioned a Fastify-based RPC-style API from functionality that had previously lived in a Laravel (PHP) monolithic application, enabling clients to embed our surveying application into their existing software and documented this in Open API 3.0 / Swagger for easy external consumption.
- Built client applications using our survey and data APIs in Next.js/React/Tailwind, allowing our sales team to sell an off-the-shelf product for clients without their own development teams.
- Introduced microservice development for handling tasks like automatic payroll pull and JWT management, beginning the process of fully replacing a pair of outdated and slow monolithic applications.
- Spearheaded new AWS infrastructure choices, including heavy use of serverless technologies like ECS/Fargate and Lambda, helping to reduce overall costs.
- Resolved prior infrastructure maintenance headaches and reduced downtime by introducing infrastructure as code concepts, leveraging AWS Copilot and AWS SAM CLI.

OnLogic, CSouth Burlington, VT

Software Developer

Feb 2018 - Apr 2021

- Produced Proof-of-Concept bespoke product information management tool (PIM) with a GraphQL (Express/Apollo) backend and Next.js/React/CSS-in-JS frontend to help determine whether to build a custom system from scratch or settle for on an off-the-shelf project.
- Customized and maintained Magento Enterprise ecommerce platform (PHP/jQuery/Knockout.js) in an attempt to buy some time while building out alternatives for the future.
- Crafted Bash deployment script, Docker development environments, some GCP infrastructure – handling devops work to enable our team to be head down on code.

iMarket Solutions, Burlington, VT

Web Developer

Dec 2016 - Jan 2018

- Constructed websites on the MODX CMS (PHP/jQuery/Sass/CSS) for the trade industry, providing small businesses with a web presence and booking software.
- Programmed and modified MODX modules (akin to WordPress plugins) for our CMS, allowing our sales team to sell unique functionality, meeting atypical customer needs.
- Resolved support tickets for post-launch design changes, granting customers a final assist in getting exactly the web presence they'd envisioned.