Kevin Groat

I am a driven software architect and engineer. I believe in writing maintainable code and user-friendly experiences. I am familiar with everything JavaScript and Typescript, and am constantly striving to better my trade through new projects and code katas. I aim to bring psychological safety to every team I am on, and feel open communication is key to having a high-performing team. I believe in the promise of AI tooling to increase the efficiency with which we as software developers work.

Experience

Disqo

November 2022 - Present

Lead Fronend Engineer for the Customer Experience Platform

Working alongside Principal Engineers to build automated sampling into the CX platform in order to reduce the workload for customer support and survey programmers.

Vue TypeScript jest GitLab Duo Python Pandas DuckDB Argo Workflows

Lead Frontend Engineer for SurveyJunkie

Led the frontend team transitioning SurveyJunkie from an Angular and PHP monolithic codebase to a modular React codebase. Devised new architectural patterns for the React project that allow for more code reuse and maintainability. Introduced new technologies to the stack, including Cypress for end-to-end testing and SWR for interacting with REST APIs. Refactored large swaths of code to make them more maintainable and cleaner.

React TypeScript Vitest GitLab Duo Cypress Storybook SWR Vite GitLab

Figma

Oracle Data Cloud / Oracle Advertising

November 2018 - November 2022

Software Architect for custom App Gateway

Designed and implemented an App Gateway sitting in front of and managing multi-tenant applications. Created tooling to allow each tenant to have their own identity domain and segregated data.

React TypeScript Java Spring Boot JUnit kubernetes nginx

Oracle Cloud Infrastructure Oracle IDCS GitLab

Senior Developer for BlueKai DMP (acquired)

Rebuilt the frontend of BlueKai from a Ruby on Rails thin client to a React and TypeScript project. Implemented complex logic within a monolithic Spring codebase. Worked closely with designers to implement a re-usable React component framework, including a complex tree-structure component.

React TypeScript Java Spring JUnit kubernetes nginx GitLab Figma

Excella Consulting
April 2012 - November 2018

Voice of America
Single-handedly built native mobile applications in over 10 languages using a single codebase. Integrated a VPN tunnel for discreet access to news from areas where such information might be limited. Helped design and integrated with a serverless GraphQL endpoint for gathering and displaying news media.

React TypeScript Cordova Java Swift GraphQL Serverless AWS Lambda
i18next GitHub

USCIS - myUSCIS application suite
Maintained two applications and led effort to bring React, Redux, and GraphQL into projects. Served as surrogate to UX team to help build a better user experience using React and more effective microinteractions.

React Redux Ruby on Rails GraphQL Jenkins GitHub

USCIS - Civics Test Study Tools
Architected and developed a React Native application to allow immigrants to prepare for the US citizenship test. Created strong testing framework, pipeline, and build tools to ensure high quality code and easily publishable product.

React Native TypeScript Redux GitHub

NRECA - Retirement, Payment & Distribution
Led a team of 4 developers to build an application to manage the payment and distributions of a $200M pension fund. Architected a .NET application backend and Backbone/AngularJS front end with more than 1 million lines of code.

C# ASP.NET Angular RequireJS MS SQL

NRECA - Online Projections
Built a web application to interface with Cobol mainframe in order to serve clients a projection of their eventual retirement or death benefits from a $200M pension fund.

C# ASP.NET

Projects

Sound Color Project

Featured at the Smithsonian's SoundScene2020, Sound Color Project explores the accessibility of sound through color, light, and texture, offering an opportunity to experience the sound spectrum visually. Though it began as a way to offer D/deaf or hard of hearing individuals an opportunity to visualize the feeling of music, the project has evolved into a system for exploring the ways that sound and color relate to each other.

React TypeScript WebGL Web Audio API Progressive Web App heroku

Planning Poker

A simple, intuitive way to collaborate on pointing stories during SCRUM backlog grooming or planning. Each member of the team gets to select their estimate, and the facilitator flips all of the cards at once to view all of the votes. Clear indicators show what users have chosen their estimates, and which members are still thinking.

Qwik TypeScript Supabase QwikCity PostgreSQL vite Google Cloud Run

Quote Explorer

A fun little app which lets you submit and explore quotes from famous people throughout history. Built with Next.js, Prisma, and Next Auth, this project showcases some best practices surrounding using server-side rendering and server actions.

React TypeScript Next.js React Query Prisma PostgreSQL Vercel

AI Game Master (in progress)

An AI RPG game master, built with the Vercel AI SDK to support multiple AI backends, including Mistral and Gemini. It allows for a large range of scenarios, even allowing custom stats available to the player. Still very much a work in progress, but getting closer to a playable version every day.

React TypeScript Next.js React Query Vercel AI SDK Mistral large Google Gemini Supermaven