

Skills

Programming

TypeScript, C#, C++, C, Java, JavaScript, Python, Lua

Backend

REST, gRPC, SQL, NoSQL, Node, .NET, ASP.NET Core, Deno

Frontend

React, Next.js, Blazor, Svelte, Sveltekit, Angular, HTML, CSS, SCSS, Tailwind CSS, PostCSS, Vite, Webpack

Cloud

Kubernetes, Docker, Apache Kafka, AWS, AWS KMS, AWS SQS, AWS S3, AWS Lambda, DynamoDB, Azure, Cosmos DB, Azure Functions, Key Vault

Architecture

OOP, Microservices, Distributed Systems, Event Sourcing, CQRS

Operating Systems

Windows, Mac OS, Linux, BASH, WSL, Powershell

Productivity

Git, Perforce, Scrum, Kanban, Jira, GitHub, CI/CD

Graphics & Design

OpenGL, WebGL, Unity 3D, Adobe Suite, Affinity Serif Suite

Experience

Senior Software Engineer at Biosero Inc.

Nov 2020 - Present

- Developed multiple microservices and web applications to facilitate the company's transition to SAAS Azure cloud.
- Created two company-wide component libraries: one with a new design system for general purposes, and another for interactive flow visualizations to enhance web visual programming tools.
- Designed and implemented internal and customer web portals, streamlining subscription management, license tracking, and access to installers, drivers, and documentation.
- Deployed scalable REST API gateways and gRPC microservices to Kubernetes cluster using Docker and CI/CD pipeline.

Software Engineer at Viasat Inc.

Jan 2019 - Apr 2020

- Developed real-time web app providing accurate internet quality and outage information based on flight plans or live trajectory.
- Implemented computational geometry library along with a serverless microservice using webhooks, Amazon S3, SQS, Lambdas, and Dynamo DB to significantly reduce processing time for file uploads in the web application.

Education

B.S. Game Design & Development

Dec 2018

Rochester Institute of Technology

Projects

Protean RPG a realtime Sveltekit web app

2022 - 2023

Users can create rooms, join active rooms, and then send messages and roll dice with other users via web sockets.

Portfolio a website built with Astro and React

2023

A high performance website with MDX content, animations, custom canvas effects, and almost zero JS deployed to Vercel.