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software engineer

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skills

Back-End Development

Front-End Development

System Administration

Reverse Engineering

Web Development

Game Development

Shaders

Branding

UI Design

3D Modeling

familiar tech

Go

C

C++

C#

TypeScript

React

Angular

MongoDB

Docker

Linux

experience

Tivoli Cloud VR • CTO and Co-Founder • 2019 to 2022

🔗 github.com/tivolicloud

Reverse engineered and extended former service "High Fidelity VR", launching our own **free and open-source fork** with **new branding** and many **community requested features**. Run by a small team of three, Tivoli was a **social VR platform** ahead of its time where **400+ concurrent users** (per world) could create and interact on **self-hosted servers**.

Created new and comfortable **user interfaces** from the ground up. Created **high performance and scalable web APIs** run on our own **physical servers administered with containers, designed to scale** easily. **Refactored and improved the performance** of our former software, adding many **quality of life improvements** and **patching many vulnerabilities** and exploits. Maintained **CI/CD** and **distributed the software** to several kinds of users on many platforms.

Together with my partner Caitlyn Meeks (former Unity Asset Store manager), **created fun and comfy worlds** for users to hang out in. **Organized** parties, hosted **community meetings** and even helped a teacher use the software with their students. We ran **many experiments** such as low-latency live streaming, instanced sandboxed virtual desktops, reality portals, and our own smart AI toaster before ChatGPT was available. Tivoli provided some **truly incredible experiences**.

OpenGL

C++

CMake

Nest.js

MongoDB

Docker

Angular

GLSL

TypeScript

HTML

High Fidelity VR • Freelance Developer • 2018 to 2019

🔗 [Wikipedia page](#)

Became well known in the community for **providing lots of essential tools** for creators and all other users. Provided **scaled server hosting solutions** that allowed more people to access the software. **Provided learning resources** for content creators, **teaching new users** regularly. Created lots of 3D models and worlds. Ran lots of experiments and had a magical time creating beautiful experiences.

Web Dev

JavaScript

Docker

3D Modeling

Roxi+ • Full-stack Developer • 2017 to 2018

🔗 roxiplus.es

Web design and implementation. Logo and company branding. Mobile and desktop accounting software.

Brainzr • Freelance Web Developer • 2015 to 2017

Designed and implemented websites for lots of different clients.

education

High School Diploma • Wingate School, Tenerife • 2018

🔗 wingateschool.com