Greg Zanchelli

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Experience

Company: Panimate
Time: July 2020 to Present
Role: CTO
Description:

- Leading a team of 8 software engineers to create an application that utilizes state of the art NLP and machine learning for novel methods of communication.
- Implemented a semantic search API using universal sentence encoders, paired with a realtime database hosted on AWS EC2 instances.
- Created the alpha version of panimate, and fast tracked project completion from six to three months.
- Advanced company goals by communicating with internal and external stakeholders, maintaining KPIs and KPMs for quarterly goals, and conducting weekly Scrum meetings.

Company: SH Acoustics
Time: July 2018 to Present
Role: Acoustics Consultant Intern
Description:

- Built and deployed an internal application which aggregates data for current projects, billing, and clients into user friendly reports and dashboards. The dashboards include a consultant billability tracker, a client relation tracker to improve client relationships, and a filtered project list view.
- Automated the distribution of weekly task list reports to consultants and senior management. Deployed the backend server that uses webhooks that sync information between CRMs.

Open Source Repositories

Project: CRAM
Active: February 2020 - Present
Description:

- Built CRAM (Computational Room Acoustics Module), a modern web-application that allows users to simulate and visualize the acoustic properties of a modeled space.
- Accepts a 3D mesh as input, and solves for the time/frequency response using stochastic ray tracing and finite difference time domain (FDTD), as well as generalized reverberation time methods.

Skills

Web: Three.js, WebGL, React, Redux, React-Native, CSS, WebAssembly
Tooling: Webpack, Rollup, Node.js, Vercel, Jest, Jasmine, Deno
Languages: TypeScript, JavaScript, Rust, C++, Python, Java

Education

College: University of Hartford
Time: September 2017 to May 2021
Degree: B.S. Mechanical Engineering (Acoustics Concentration) with Mathematics Minor