Cornelius Renken

Contact Profiles

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Technical Skills	Front End React Svelte Sass	Back End Node.js Express PostgreSQL	Infrastructure Docker AWS Electron	Tools ChatGPT Git Vim	Languages JavaScript TypeScript C#
	Redux	MongoDB	Jest	Webpack	LATEX

HTML/CSS Pinecone Puppeteer Babel

Projects Twice — Electron, React, Sass, Sqlite <u>Live Demo</u> — <u>GitHub</u> — 2023 Habit tracker with a focus on UI and UX

• Reworked default browser behaviors to craft a bespoke, native user experience

- Designed and implemented intricate animations and layouts for a satisfying and engaging experience
- Built a task queue to ensure both instant client-side interactions as well as accurate, sequential backend processing
- Improved code maintainability by dynamically generating Typescript interfaces for Electron-exposed native APIs

Notion Query — OpenAI, Pinecone, Svelte <u>GIF — GitHub — 2023</u> Answer queries using a Notion workspace as context

- Implemented a Pinecone vector database for rapid contextual data retrieval
- Optimized vectors by building parsers to unfold Notion's block structure, paginating pages as needed to abide by the OpenAI API token limitations
- Improved responses by augmenting the user query using GPT-4 and thus improving the quality of contextually chosen pages
- Employed server-sent events to provide real-time status updates while querying

Soulful — Express, AWS, PostgreSQL

<u>GitHub</u> — 2022

E-Commerce back end rebuilt to handle web-scale traffic

- Replaced a monolithic API with a scalable service-oriented architecture
- Optimized SQL queries to achieve sub-1ms response times on tables of 3M+ rows
- Identified bottlenecks by stress testing using K6, Loader.io, and New Relic
- Deployed service on AWS and scaled it to handle 300% more throughput via load balancing and caching

Experience Music Producer 2017 - 2021

Self-Employed

- Attained over 10 million plays across solo and contracted work
- Worked in high-pressure environments with artists in-studio and remotely
- Realized artist's ideas given anything ranging from minimal direction to exact specifications

Education Hack Reactor 2022

Advanced Software Engineering Certificate

Awards Agora Video SDK Hackathon – 2nd Place 2022