Kevin Hernandez-Rives

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PORTFOLIO: kevinhr.dev

WORK

Independent Full-Stack Developer at Chinese Christian Church of New Jersey | 2021-2022
- Collaborated remotely with the client to design and implement several features for the church website.
- Developed a streamlined digital financial form management system, enabling authorized members of the church administration to submit, approve, and archive financial forms and receipts with ease.
- Achieved substantial reductions in processing time and administrative workload while significantly enhancing data accuracy and accessibility compared to the previous paper-based process.
- Identified and implemented a variety of improvements to the user experience of church members.
- Technologies: PHP, MySQL, JavaScript, Bootstrap

PERSONAL PROJECTS

Flashcard Management Application
Demo: ruruflashcards.herokuapp.com
- Designed and developed a comprehensive, full-stack, single-page web application to create, manage, and study flashcards.
- Crafted an intuitive and aesthetically-pleasing user interface using TypeScript, React, and Redux (later transitioned to the React Context API).
- Implemented a secure back-end with Node.js, Express, MongoDB, and GraphQL, enabling efficient data storage, retrieval, and management, and user authentication.
- Integrated Google Cloud Text-to-Speech, enabling users to hear flashcard content, enhancing the learning experience.

Browser-based 3D Rendering Engine

Demo: rwgle.herokuapp.com

- Developed a minimalist, browser-based, 3D rendering engine using Rust, WebAssembly, and WebGL.
- Includes support for basic texturing, normal and specular mapping, dynamic lighting, and glTF loading

2D Adventure Game Engine

Video Demo: youtu.be/lqc0hwu_T4s

- Developed a cross-platform 2D adventure game engine using Rust, featuring a flexible Entity-Component-System architecture, concurrent event scripting with Lua, and tile-based graphics and animation.

EDUCATION

Associate of Science in **Computer Science and Engineering**, GPA: 3.6
Union County College, Cranford, NJ, USA, 2019

TECHNICAL SKILLS

Languages: Rust, JavaScript/TypeScript, PHP, Java, Lua, HTML, CSS
Technologies: React, Next.js, Node.js, MySQL, WebGL, MongoDB, GraphQL, Git, Github

SPOKEN LANGUAGES

English *(Native)*, Japanese *(Professional, JLPT N1)*, Spanish *(Conversational)*