

Kevin Selwyn

Frontend Engineer

(Full resume at <https://kevinselwyn.com/resume>)

Contact

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Profile

Kevin is a highly motivated self-starter with 10+ years of professional web development and software development experience. He has a tenacious drive to learn and he has a passion for improving the user experience.

Personal Projects

Nessemble

<https://github.com/kevinselwyn/nessemble>

A 6502 assembler for the Nintendo Entertainment System.

Challenges included creating a custom BNF grammar and compiling to WASM to run in the browser.

Language(s):

C Lua Scheme JavaScript WASM 6502 Assembly
Python SQL

Tech:

Flex Bison Flask Emscripten Vagrant Ubuntu Linux
GCC MinGW MSI Valgrind Splint Yarn NPM

canvas-steg

<https://github.com/kevinselwyn/canvas-steg>

Execute and embed JavaScript hidden in steganographic images.

Proof-of-concept to demonstrate how unbelievably easy it is to embed JavaScript in an image and then execute it.

Language(s):

JavaScript

Tech:

Yarn NPM Webpack

LEGO Enhanced Graphics Object

<https://github.com/kevinselwyn/lego>

A file format for representing 2D LEGO brick images.

Building off practical experience with block-based file formats, this file format is simple and extensible.

Language(s):

C

Tech:

libpng libjpeg GCC

x-darksouls-y

<https://github.com/kevinselwyn/x-darksouls-y>

Twitter bot that tells you what X is the Dark Souls of.

This bot (posting exclusively to @x_darksouls_y) searches recent Tweets for the phrase "is harder than" and replaces it with "is the Dark Souls of".

Language(s):

Python

Tech:

Heroku Flask Twitter API

Employment

Amper Music 2016 - 2020

sr. frontend engineer

Kevin worked as the sole frontend developer of Amper Music's enterprise AI music composition web app. Having inherited a legacy React codebase, 2 major versions of the application were released during his tenure including numerous minor versions.

He also worked closely with the Systems Architect/API Developer to test, document, and ultimately consume the company's public and internal web APIs.

Kevin utilized Rust to generate WebAssembly to create extremely performant mission-critical components.

Language(s):

JavaScript TypeScript HTML CSS SASS Python
Rust WASM Bash

Tech:

React NodeJS Yarn NPM Webpack Babel REST
GraphQL Git Vagrant Ubuntu Linux Cargo Make

Penguin Random House 2014 - 2016

↳ Fodors Travel, Living Language

sr. web developer

Kevin was the lead frontend web developer for Fodor's Travel and contributed greatly to Living Language.

He assisted in converting a legacy ColdFusion codebase to PHP/MySQL.

Kevin disassembled/reverse-engineered a series of Flash games and converted them to a custom JavaScript framework for maximum browser compatibility without breaking the existing API endpoints.

In addition to regular web development duties, Kevin also developed HTML emails and coordinated large, regularly scheduled email blasts.

Language(s):

JavaScript ActionScript Flash HTML CSS SASS PHP
ColdFusion SQL

Tech:

NodeJS Grunt Haxe MySQL SVN

TSL Marketing 2012 - 2014

sr. web developer

Kevin developed websites, blogs, landing pages, and HTML emails for clients in the technology sector.

He also performed SEO keyword research and optimization.

In addition to developing websites, he also trained clients on proper use, care, and customization of their website or blog through a CMS.

Not limited to digital, Kevin also aided in the fulfillment of dimensional mail campaigns (postage, shipping).

Language(s):

JavaScript HTML CSS PHP SQL

Tech:

Wordpress MySQL

Freelance 2010 - 2012

freelance web developer

Kevin created and maintained websites in a timely fashion and worked closely with clients to deliver great experiences for their users.

Language(s):

JavaScript PHP SQL

Tech:

Wordpress MySQL

Education

Shenandoah Conservatory 2006 - 2010
bachelor of fine arts in musical theatre

Urbana High School 2002 - 2006
high school diploma

Skills

Language(s):

6502 Assembly ActionScript Bash C C# ColdFusion CSS Flash HTML HTML/CSS Java JavaScript Lua PHP
Python Rust SASS Scheme SQL Swift TypeScript WASM

Tech:

Adobe Creative Suite AWS Cargo EC2 Emscripten Flask GCC Git GraphQL Haxe Heroku Make MySQL NodeJS
NPM React REST S3 SVN Ubuntu Linux Vagrant Webpack Wordpress Yarn

Interests

Kevin is passionate about music, The Office, The Legend of Zelda, and Corgis. He can grow a beard with great haste and loves singing and playing the guitar (poorly).