



Summary

Software Engineer with experience in all aspects of building software including architecture, implementation, and deployment. Most of my experience has been building REST APIs, microservices and frontends in JS, .Net and Go using both SQL and No-SQL DBs. I also have experience with a wide range of other technologies as listed in the section below. I think that it's important to follow best practices in order to promote and retain readability, maintainability and reliability.

Skills and Technology

Software Engineering

Golang, JavaScript, Nodejs, NPM, C#, .Net, Entity, Framework, MSSQL, C++, Git, Google Cloud, firebase, AWS, Plesk, MongoDB, Mercurial, TDD, Regexp, Magick++, Mocha, Express, Gulp, Pug, HTML, CSS, WebSockets, JSON, REST

Linux

Arch, Debian, CentOS, Systemd, Fish, Bash, SSH, ACLs, xattrs, Haproxy, Nginx, Plesk, dm-crypt, Xinetd, Rsync, Cage, FFmpeg, ImageMagick, LTO, Raspberry pi

Networking

DNS, TLS/SSL, HTTP, Let's Encrypt, Certbot, Opnsense, Unifi, PoE, Fibre Channel

IT Support and Other IT

Microsoft 365, MailEnable, Desktop/Server Hardware, Dell iDrac, Google Ads, Plesk

Non-IT

SolidWorks, Fusion360, OpenScad, Blender, Cura, Chitubox, Kdenlive, Adobe Premier Pro, Gimp, Paint.net

Employment

Pro-Quest Resourcing Recruitment company

Jun 2018 - Jun 2021

Software Engineer

- Worked in a two person team responsible for automating recruitment lead generation. We built a complex data pipeline to regularly import vacancies from various sources. Built with Node.js, .Net, SendGrid and microservices hosted on Google Cloud. This provided Pro-Quest with all of it's vacancy leads. Sources included third party vacancy providers and scraping. Vacancies were normalized, filtered and deduplicated (around 20,000 - 30,000 per day). Relevant email addresses were found using a number of methods including bing searching, scraping, third party email providers and a data entry web app. Emails were then sent out automatically to prospective employers. We accrued a database of hundreds of thousands of vacancies, companies and contacts in order to manage email unsubscriptions and to access previously found email addresses.
- Built a job listing web app, using vanilla JavaScript, to attract candidates to match with the vacancies of the system above. This was an SPA with background loading for a fast UX.
- Built a caching proxy for a slow third party recruitment API (JobAdder). Stored responses in Google's Firestore.

IFL Management Umbrella company provider

Mar 2017 - Present

Software Engineer

- Rewrote a QuickBooks data importer to significantly optimise processing and deduplication of financial data using in memory indexing in JavaScript.
- Worked in a small team to build an online quote and sales lead system using .Net and SendGrid.
- Managed servers and hosting of various web apps including DNS.
- Administrated various in house and third party emailing systems including Mailenable and Microsoft 365.
- Built a tool for backing up office machines to OneDrive using Golang.

Personal Projects

Forza Map

Go WebSockets UDP github.com/jkeveren/forza-map

Map for the game Forza Horizon 4 that displays the realtime location of all configured players.

Personal Website

Go REST TDD github.com/jkeveren/personal-website

Manipulates HTTP connections to "trickle" the home page. Includes a gallery feature that is optimised for serving images over a slow connection by using compression and caching.

MassDraw

JavaScript Node.js Socket.io github.com/jkeveren/massdraw

Allows multiple people to draw on a shared whiteboard in realtime using Socket.io and JavaScript's canvas API.

Find by Extended Attribute

Go Linux xattrs TDD github.com/jkeveren/find-by-extended-attribute

Simple Linux tool to find files based on extended attribute criteria. Similar to "getfattr -R" but with much more sensible output.

CV

JavaScript HTML CSS github.com/jkeveren/cv

This CV is a HTML page that is built using JavaScript which I print to PDF. When printing, some styles change allowing the web version (at cv.keve.ren) to have visible links while keeping the PDF clean.