Josh Richards - Software Engineer

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Skills

- **Languages** = JavaScript, Typescript, C#, Python, Go, HTML, CSS, PostgreSQL
- **Frameworks** = React, Next.js, Astro, Tailwind, Node.js, .NET, Express.js, React Native
- **Technologies/Concepts** = AWS, Git, Agile, REST, Websockets, Redux, CI/CD, TeamCity, GitHub, Docker, Firebase

Work Experience

Xero - Software Engineer - 2020/Present

[React | TypeScript | C# | ASP.NET | AWS | Agile | Git | CI/CD] I have been a core member of the engineering team responsible for modernising Xero's Invoicing platform and sunsetting our legacy solution. This has involved reaching feature parity and **migrating over one million small businesses to our new platform**. Through this, I have developed deep technical skills by delivering a full-stack scalable application to hundreds of thousands of daily users, with a focus on user experience, performance, and engineering quality. Additionally, at Xero I've also been an Intern and Graduate Engineer allowing me to experience 5 different teams including devops, mobile, and full-stack web development giving me exposure to a wide variety of technical challenges and solutions.

Hedges - Co-Founder - 2021/2022

[React Native | TypeScript | Node.js | Express | PostgreSQL | Heroku] Due to the popularity of a personal project Ticker Tracker, I teamed up with a co-founder to develop a financial portfolio tracking mobile app called Hedges. Although we were unable to release the project, working on Hedges was a valuable learning experience that honed my technical and interpersonal skills.

CR Automation - Software Engineer Intern - 2019/2020

[C# | .NET | SQL Server] I was tasked with building a Business Intelligence Agent that received data from a data source (e.g. PLC, Computer, Database, etc.) and sent it to multiple SQL Server databases or files using various communication protocols concurrently.

Personal Projects

Ten Thousand Pixels - Javascript | Golang | Websockets | Redis (2024) (GitHub / Reddit Post)

Ten Thousand Pixels is a real-time collaborative pixel art canvas where users can draw pixels and see live updates. It has gained over **20,000 unique visitors**, **90 GitHub stars**, and during its peak the site was getting over **30,000 pixel updates every 10 minutes**.

Piano Theory - React | Typescript | Tailwind (2024) (GitHub / Reddit Post)

Piano Theory is a platform for users to learn how to play various notes, chords, and scales using a virtual piano. It gets over **500 unique visitors per month**, and has had **3,000 total unique visitors**.

Album Listen List - React | Typescript | Tailwind | Firebase | Spotify (2023) (Reddit Post)

Album Listen List is a place where Spotify users can aggregate all of the albums they plan to listen to, rate their favourites, and share their list with friends. It has over **700 registered users** and **14,000 page views**.

Education

Graduated with a **Bachelor of Science** Majoring in **Computer Science** at Victoria University of Wellington (2021)

Interests

I stay active by bouldering a couple times a week at my local gym, and as a creative outlet I play piano regularly and attend weekly lessons. I also genuinely love working on coding projects or learning something new about software development. Building cool things with web technologies and sharing it with people is a real passion of mine.