

# Josh Richards - Software Engineer

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## Skills

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- **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

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### Xero - Software Engineer - 2020/Present

[ **React** | **Typescript** | **C#** | **ASP.NET** | **AWS** | **Agile** | **Git** | **GitHub** | **CI/CD** ] I am currently part of the engineering team building Xero's Invoicing platform. We have recently completed the sunset of the classic invoicing solution. This involved reaching feature parity and migrating hundreds of thousands of small businesses to our modernised platform. In this project I was a core member of the engineering team responsible for achieving feature parity and executing the migration. Working on Invoicing at Xero has allowed me to develop deep technical skills by delivering a full-stack scalable application to hundreds of thousands of daily users.

### Hedges - Co-Founder - 2021/2022

[ **React Native** | **Typescript** | **Node.js** | **Express** | **PostgreSQL** | **Heroku** | **Finance APIs** ] Because of the popularity of my personal project Ticker Tracker (detailed below) I teamed up with a co-founder to design and build a cross-platform financial portfolio tracking mobile app called Hedges. Although life events on both our parts prevented us from releasing 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 receives data from a data source (e.g. PLC, Computer, Database, etc.) and sends it to multiple SQL Server databases or files using various communication protocols concurrently.

## Personal Projects

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### Ten Thousand Pixels - Javascript | Golang | Websockets | Redis (2024)

Ten Thousand Pixels is a real-time collaborative pixel art canvas where users can draw pixels and see live updates. It has gained over **19,000 unique visitors**, **80 GitHub stars**, and during its peak the site was getting over **30,000 pixel updates every 10 minutes**.

### Piano Theory - React | Typescript | Tailwind (2024)

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 | Vercel (2023)

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**.

### Ticker Tracker - React | Typescript | SCSS | Firebase | Yahoo Finance | Netlify (2021)

Ticker Tracker is a platform for users to aggregate all of their stock market investments into one location and get a breakdown of their net worth. It has over **650 signups** and **10,000 page views**.

## Education

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