

# Garrett Tvedt

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## Summary

Adaptable Software Engineer with 4 years of experience focused on putting together great user experiences. Well-versed in working with backend and infrastructure technologies for fast paced startups. Proven track record of building efficient, scalable backends and equally performant frontends.

## Experience

### Full Stack Engineer (Project),

Arwing,

Jan 2023 - Ongoing

- Built command-line tooling in **Rust** to analyze Video Game replay files which executes more than twice as fast as similar analysis tools.
- Built a caching system using **SQLite** to improve execution speed a further 20% on average
- Ported command line functionality to a cross-platform GUI using **Tauri** with a **SolidJs** frontend

### Full Stack Engineer (Contract),

Norway Lutheran Historical Records,

Dec 2022 - Ongoing

- Architected **NextJS** backend services and a **PostgreSQL** database to manage historical documents
- Created design documents from first user stories, and fully implemented frontend UI in **React**

### Lead Full Stack Engineer,

Rensa Games,

Sept 2021 - Oct 2022

- Scaffolded scalable **REST** APIs for secondary market integration using **Typescript React, NextJS,** and **Vercel**, leading to an increase in sales by 90%
- Restructured data querying by using a **DynamoDB** Database to speed up queries from 2s to 50ms
- Led development on **Solidity** based backend with **Stripe** integration to facilitate instant payouts

### Infrastructure Engineer (Contract),

Harmony One,

Sep 2021 - Jan 2022

- Developed tooling to measure live consensus performance metrics in Harmony's 240 distributed nodes
- Optimized node memory usage to reduce key garbage collection spikes in **Golang**. Contributing to an overall decrease in consensus time by a third as well as greatly improving consistency

### Frontend Engineer,

Cartallos Finance,

Dec 2020 - Sep 2021

- Collaborated with UI design team in **Figma** to design our ideal frontend, then implemented it in **React**
- Built deployment and test scripts in **NodeJS**, with **CI/CD** ensuring strict quality standards

### Full Stack Engineer (Freelance),

GTvedt Freelance,

May 2019 - Dec 2020

- Built **Full Stack** websites in **TypeScript React** and **Angular** with **AWS Lambda Java** backends

## Education

B.S. Computer Science,

University of Wyoming,

Spring 2015

- Completed **114 of 120** required credit hours towards B.S. of Computer Science
- Finished first place in competition with 133 other industry professionals at WyoHackathon 2021 in the Marlowe Future Challenge and Blockchain Interoperability Challenge