

# Nova Walseth

Software Engineer in San Francisco

She/They

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<https://nova.walseth.me>

## EXPERIENCE

### Microsoft, Remote — Senior Software Engineer

July 2021 - Oct 2023

Contributor on Microsoft Viva Connections. This was done with the Adaptive Card Extensions library in TypeScript that was then bundled into a Sharepoint package and integrated into Microsoft Teams. My work was focused around adding “cards” to allow users to interact with campus tools all in one place. At the end of my time at Microsoft I was working on implementing AI/OCR receipt parsing for automated expense reimbursement using Azure Document Intelligence.

### Google, Sunnyvale/Remote — Software Engineer

May 2019 - November 2020

Contributor on BigQuery row-level security for the BigQuery Data Governance team. My primary area of work was changes to BigQuery’s Java based IAM service. I also made changes to Google Cloud console front-end using Angular, and lower layers such as Dremel internals in C++.

### Brady Corporation, Milwaukee/Remote — Software Engineer

August 2017 - May 2019

Contributor on a Azure Based Inspection Management and Asset Tracking platform which consisted of a mobile app and web app, as well as a very simple desktop client. I added several new services and features to the platform using Azure Functions, Service Bus, Cosmos DB, and various other Azure features. Most of the applications were written in C# and Typescript, with Angular as the primary framework for client facing applications. I also worked on smaller internal projects using React with NodeJS.

### Direct Supply, Milwaukee — Software Engineer Intern

June 2015 - May 2016

Contributor for Direct Supply’s main .NET eCommerce platform. During Summer 2015, I participated in an intern project to develop a website for one of Direct Supply’s supplier sites. This project was my favorite part of working at Direct Supply, as we got to start from scratch on our own project. I lead a small team that created the backend REST API for this project using Python and Django.

## SKILLS & INTERESTS

- Data Structures
- Serverless Computing
- Light Embedded Work

## TECHNOLOGIES

- Azure
- Google Cloud
- React
- Angular
- .Net

## PROGRAMMING LANGUAGES

- C#
- JavaScript
- TypeScript
- Java
- C++
- Python
- Lua
- Rust

## EDUCATION

### Milwaukee School of Engineering — *B.S. Software Engineering*

Sept 2013 - May 2017

## PERSONAL PROJECTS

### Various Hardware Projects — *N.A.*

I have been most recently working on trying to improve my skills and knowledge around hardware projects, including recently learning to solder and understanding more about circuit boards. Most recently I am working on wiring my own busy status lights above my door to be able to control using an ESP8266 board.

### Smart Home Console — <https://github.com/Awkewainze/SmartConsole>

Using a small LED touchscreen and a Raspberry Pi, I developed an app to allow controlling my apartment's Philips Hue lights, display time and weather. I am also working on adding the ability to control the thermostat (through the Nest API) and hook up moisture sensors to my plants to give a quick readout of which plants need to be watered.

### Discord Chatbot — <https://github.com/Awkewainze/FriendBot>

A friendly Discord bot that was really for a fun project to do among friends. I used it as a way to teach some friends how to program and use the Discord API, as well as learning some newer TypeScript techniques for myself.

### Testing API — *(Several iterations)*

A backend server using NodeJS and a UI using ReactJS. This app allows for a quick UI based way to make a simple backend to test various ways an app would react, such as mocking various return objects, return codes, mock latency on the server, dropped responses, etc. I have made several versions of this app trying different approaches and libraries over the past few years.