

MAGNUS NILSEN

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RELEVANT EXPERIENCE

Software Engineer II: Frontline Education – March 2023 – Present

- Migrated our mapping platform from Google Maps to OpenLayers, leveraging WebGL to efficiently render hundreds of thousands of data points and integrating ArcGIS to provide a more comprehensive GIS experience. Also began developing an AI-powered assistant that uses LLM tools to interact directly with OpenLayers maps, alongside a visual page agent that guides users through the platform's features and workflows.
- Was part of the team who won the first AI hackathon at Frontline Education. We developed an AI chatbot that was integrated with our budget management software. I was mainly responsible for making the chat UI, integrating our API as tools to work with OpenAI SDK, streaming the messages and setting up vector DB for RAG capabilities.
- Led modernization of a legacy codebase by converting large portions from JavaScript to TypeScript, migrating from ExtJS to a React-based framework. Developed a reusable internal component library using Radix UI and Shadcn/UI to align with the new design system. Authored and maintained the majority of related tech debt tickets driving this transition.
- Took initiative to rebuild a broken dashboard editor for our map analytics software. Added support for users to use maps as widget in the dashboard and simplified the layout creation.

Frontend Developer: SETVI Feb 2020 - January 2023

- Assisted the team with developing a new engagement app for the company, where my main focus is converting designs from Figma into React components, using MUI System with TypeScript. Focusing especially on email creation and analytics. Making it easier for the sales team to personalize and automate new product launches, sales, and promotional campaigns with dynamic sales material.
- Developed a Salesforce LWC (Lightning web app) Quotes app prototype for one of our biggest customers Middleby. Allowing users to create accurate quotes with their product/contact database integrated into Salesforce. With all custom components and integrating Google Map API

for a prospect finder tab, custom task list, quote/order/product creation. Involved mostly using vanilla Javascript, HTML, and CSS to create lightning web components.

- Developed a Salesforce e-commerce app with React(Nextjs), Hasura and Heroku connect for PjP. Where Salesforce was the main backend which synced with Heroku connect, and Hasura being the api layer to communicate with the React App and Heroku connect. Sanity was also used as a CMS for product details and categories.

UI/UX/Frontend internship: SETVI Feb 2019- Dec 2019

- UI/UX – Prototyped a new design for their old web app
- Graphic Design – Generated content for demo apps to potential customers.
- Frontend – Helped the development team in assisting with bug fixes. Converting hi-res fidelity prototype of their new web app into production. Helping them upgrade their technology stack from Angularjs to React.
- Working on integrating a design system based on atomic design principles with StorybookJS.

EDUCATION

Bachelor in Media and Production: Temple University (Philadelphia, PA), 2015 – 2019 Dec

Graduated from Temple. Did two years of Comp Sci before changing to Media and Production.

Computer Science associate degree: Bunker Hill Community College (Boston, MA), 2014-2015

Studied for 1 and half year at BHCC in Boston, before transferring to Temple.

Technical Diploma in 3d Design/Animation: Idefagskolen (Tønsberg, Norway), 2011 - 2013

Studied in 3d design and animation.

SKILLS

SOFTWARE: HTML/CSS, Headless Wordpress, Typescript, Javascript, React, GraphQL, Salesforce, Sanity, Postgresql, Redux, Sass, Python, C++, Adobe Package, Figma. Nextjs

