

Aaron Nolan

(331) 401-7640 | 548 73rd St. Downers Grove, IL | aaron.nolan24@gmail.com | github.com/anolan23 | aaronportfolio.com

PROJECTS

GSA FedRAMP Automation | *React, Typescript, Docker, Figma*

Sep 2022 - Dec 2023

- Designed and developed two frontend web portals to help automate the FedRAMP ATO process.
- Collaborated closely with the backend team and stakeholders to ensure alignment with project requirements.
- Built my own custom React component library to improve code reusability and UI consistency across both portals.
- Integrated Multi-Factor Authentication (MFA) with the help of the backend team, significantly enhancing security and compliance.
- Configured GitHub Actions to automatically build and push Docker images of both portals, tagging them with their respective version numbers for streamlined deployment and versioning.
- Set up automated end to end testing using Cypress to ensure reliability of the test and production environments.

Paperly.ai | *React, Node.js, PostgreSQL, Springboot, Docker*

Sep 2023 - Present

- Developed a set of microservices with the goal of assisting users in writing long-form papers with AI.
- Built a scalable Node.js server that processes user requests, manages interactions with the PostgreSQL database, and interfaces with the OpenAI API.
- Designed and implemented an intuitive UI, offering users a seamless writing experience with grammar suggestions and an AI Assistant.
- Deployed and managed the application using AWS ECS, S3, Cloudfront, and Codebuild, ensuring high availability, scalability, and automated deployment processes.

Twitleague | *Nextjs, PostgreSQL, Amazon S3*

Mar 2021

- Developed a social media platform for youth sports leagues.
- Improved the pages' first contentful paint by more than 50% by using Incremental Static Regeneration.
- Built the API with NextJS's serverless API routes to speed up development and allow for easy scaling.

EXPERIENCE

Frontend Engineer

Sep 2022 – Dec 2023

Volpe IT Group (Contracted with GSA)

Remote

- Led design and development of the two frontend portals, streamlining the FedRAMP ATO process for GSA.
- Optimized user experience for CSPs/3PAOs and GSA admins with intuitive, responsive designs.
- Seamlessly integrated with backend via REST APIs.
- Collaborated with cross-functional teams, ensuring alignment and timely project delivery.

Mechanical Engineer

Jan 2015 – Oct 2021

Orion Instruments

Baton Rouge, LA

- Redesigned a 316 Stainless steel end plug to an injection molded Nylon 30% glass filled material which saves the company over \$100k annually
- Created an Excel application that automates most of the calculations needed for pressure vessels built to ASME Section VIII, Div 1 code, saving the company around \$20k annually

TECHNICAL SKILLS

Languages: Javascript, Typescript, HTML/CSS, Python, SQL, C#, Java

Libraries: React, Redux

Runtime Environments: Node.js

Frameworks: Express, Flask, ASP.NET Core, NextJS, React Native, Springboot

Databases: PostgreSQL, SQLite, Redis, MongoDB

Tools: Git, Github, Docker, AWS, Vite, Figma, VS Code, PyCharm, IntelliJ IDEA, Jira/Confluence

Testing: Cypress, Jest, Vitest, React Testing Library, Storybook

EDUCATION

Northern Illinois University

Dekalb, IL

BS Mechanical Engineering

Oct 2009 – Dec 2014