

Przemysław Maranowski

FULL-STACK DEVELOPER

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I am a full-stack engineer with over 5 years of experience based in Denmark. Currently working at Astro.io where I designed and implemented the backend infrastructure, I also independently developed and deployed the Astro.io app and the Astro.io website. This shows my versatility and ability to take the ownership. Currently I'm the main contributor to the platform and I'm responsible for making the technical decisions and fixing issues.

Skills

DevOps Docker, Kubernetes, Terraform, CI/CD, Skaffold, GIT, SSH, NPM, JIRA
Back-end AWS, Python, FastApi, Flask, PostgreSQL, Redis, SQLAlchemy
Front-end Javascript, React Native, React, Next.js, NodeJS, Typescript
Languages English, Polish

Experience

Astro.io

Copenhagen, Denmark

FULL STACK DEVELOPER

Oct. 2020 - Current

- Redesigned and migrated the entire service architecture for Astro.io from AWS Lambda to a containerized Kubernetes environment running on AWS EKS. This transition significantly enhanced system performance, slashing latency from seconds to milliseconds and greatly improved responsiveness. The revamped backend infrastructure now includes a FastAPI server, a Dramatiq background task manager that listens to Redis for incoming jobs, and a Python websocket client for real-time price change monitoring.
- Used Skaffold to set up a local environment that mirrored production running on Kubernetes. This approach ensured developers had a seamless and dependable experience during development.
- Ensured reliability of the backend by implementing thorough unit tests.
- Built fully automated CI/CD pipelines based on Github Actions. These pipelines included linting, test execution, Docker image creation, AWS ECR image pushing, and AWS EKS updates. This allowed for predictable and reliable deployments.
- Researched and implemented financial models for portfolio risk calculation and optimization. This involved extensive work with Numpy, Pandas, and various statistical model libraries.
- Implemented passwordless SMS-based authorization and authentication flow by integrating with Auth0.
- Achieved 85% reduction in pre-production environment costs by transitioning from AWS EKS to k3s on AWS Lightsail. This transition was not invasive in developers' workflow and significantly optimized resource expenditure.
- Achieved a 3 fold increase in query performance for tables containing timestamp data through the strategic implementation of modulo indexes.
- Implemented comprehensive performance testing methodologies utilizing tools such as wrk and k6 to assess and optimize the backend
- Independently developed the entire Astro.io React Native app from scratch. Including signup flow, animations, charting and data visualizations.
- Created an app deployment pipeline utilizing Expo, facilitating seamless deployment to the iOS App Store via Over-The-Air (OTA) updates and/or App Store Connect. This pipeline not only streamlined the deployment process but also substantially reduced deployment time, enhancing overall efficiency and productivity.
- Developed and deployed the Astro.io SSR Next.js website on AWS Amplify. Leveraging SSR allowed for smoother integration with the backend and enabled dynamic SEO optimization.

Clockwork Trading

Copenhagen, Denmark

SOFTWARE/BLOCKCHAIN ENGINEER

Aug. 2019 - Oct. 2020

- Developed an internal wallet structure and strategy for storing customers' cryptocurrencies.
- Worked on AWS Lambda functions for internal cryptocurrency flow between hot and cold storage.

Self-Employed

FREELANCER

Oct. 2018 - Aug. 2019

- Developed e-commerce websites.
- Worked on SEO optimization.

Education

Business Academy Aarhus

Aarhus, Denmark

B.S. IN COMPUTER SCIENCE

Jan. 2020 - Jan. 2022