Bogdan Barbu

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Skills

TypeScript, JavaScript, React, Vue, Angular, Node, NestJS, Express, Mongo, Docker, Kafka, CI/CD (GitHub Actions, Gitlab CI), Microservices, Nx monorepo

Experience

SOFTWARE DEVELOPER AT YONDER | JULY 2022 – PRESENT

- Energetical industry platform
  - Participated to the architectural decision meetings and implemented the core of the applications.
  - Implemented a distributed frontend architecture using Angular Native Federation, ensuring a shared state across microfrontends for data communication.
  - Developed new microservices using Node and NestJs, and established an event-based communication between them with Kafka.
  - Used Nx monorepo to organize and manage multiple projects and libraries within a single repository.
  - Set up Gitlab CI/CD pipelines and deployed microservices on AWS using Docker.
  - Established the monitoring of the services using Prometheus and Grafana.
  - Set up Postgres database migration scripts using TypeORM.
  - Implemented and published an OIDC Authentication library, to ensure consistency across the microservices.
  - Helped with the integration of an LLM Agent into a Node application to convert customer emails into a JSON data structure.
  - Added IMAP support to an email reading microservice in order to download and parse the content efficiently.
  - Trained new colleagues to ensure a quicker ramp-up after joining the team
- Payroll platform
  - Migrated & developed features from an old application, to a modern web solution, using Vue.
  - Reverse engineered the old code base to find customer specific features and exceptions.
  - Participated in the Vue 2-3 migration process, because the new version released while the project was ongoing.
  - Worked with SCRUM Agile methodology.

FREELANCE SOFTWARE DEVELOPER | SEPTEMBER 2020 – PRESENT

- Biotweak | started on August 2023
  - Designed, developed, and deployed the entire backend system and an admin web platform used to manage tenants, users, and scheduled tasks, using Node, Express, Mongo and React.
  - Implemented support for multiple time zones to ensure accurate challenge delivery globally.
  - Integrated OneSignal for real-time push notifications.
  - Set up CI/CD pipelines with GitHub Actions to automate testing and deployment processes.

- Cruze | started on October 2021
  - Developed backend REST API endpoints to support core ride functionalities, using Node, Express and Mongo.
  - Designed and implemented a ride recommendation algorithm based on users' ride history.
  - Integrated Firebase Cloud Messaging for mobile push notifications.
  - Built the entire web-based administration platform for managing users and rides using React.
  - Set up CI/CD workflows using GitHub Actions.
- Creative Motion | September 2020 – October 2021
  - Developed a multivendor marketplace for South African market using WordPress, WooCommerce and Dokan.
  - Assisted in developing a rental management application for managing leases, sending invoices, and handling tenant complaints by designing and implementing the application dashboard using React.

Education

TECHNICAL UNIVERSITY OF CLUJ NAPOCA
Computer Engineering | September 2020 – July 2024
My Bachelor's thesis focused on the study of circuit recognition by computers using machine learning techniques, as well as the simulation of these circuits through a web-based interface.
A paper based on this work was also published and presented at the International Conference on Intelligent Computer Communication and Processing.