Andrii Rodik
Fullstack JavaScript Software Engineer

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Description

Fullstack JavaScript Software Engineer with 4+ years of experience in designing and developing scalable web applications. Proficient in both frontend and backend technologies, including React.js, Node.js, and Nest.js. Experienced in building projects from scratch, covering all stages of development — from general project concepts to deployment. Skilled in database management (both SQL and no-SQL) and optimizing application performance. Capable of working as a backend, frontend, or fullstack developer, delivering user-friendly and high-performance solutions.

Professional Experience

FullStack Engineer *(Self-Employed)*   *12/2023 - now*

- **Telegram Web App for User Management**

This project involved developing a Telegram web app for managing users via an API. I was brought on exclusively as the frontend developer through personal connections, where I focused solely on building the client side.

As the sole frontend developer, I built the entire user interface using **React.js** with **Vite**. I implemented the chat functionality using **long polling** to meet the server's current chat implementation, collaborating closely with the backend team. Additionally, I assisted with the deployment process, providing key frontend optimizations and adjustments to ensure a seamless launch.

Tech stack: React.js, Vite, Telegram Web App

- **UX Designer Platform**

This is my personal product I developed for UX designers to create, store, and export components such as UX personas, competitor analysis, and empathy maps. The platform provides a comprehensive tool for organizing and managing design assets, aiming to enhance the design process for UX professionals.

I was responsible for the entire development lifecycle, acting as the backend and frontend developer, UI/UX designer, and DevOps engineer. I built the backend using **Nest.js**, **DynamoDB** for data storage, **S3** for file management, **AWS SES** for email notifications, and hosted the application on **EC2**. On the frontend, I created a seamless user experience using **React.js** and **Redux.js**, with **Webpack** for bundling. Beyond development, I personally purchased and registered the platform's domain, set up DNS configurations, and configured TLS for secure communication. Additionally, I manage ongoing maintenance, SEO optimization, and actively promote the platform to the UX community.

Tech stack: Node.js, Nest.js, AWS (DynamoDB, S3, EC2, SES), React.js, Redux.js, Webpack

Backend Engineer *(OTAKOYI)*   *08/2023 - 11/2023*

- **Headless CRON Notification Service for Internal Staff Usage.**

Developed in **Nest.js** utilizing **Docker**. The primary function of the service was to automate the sending of periodic reminders, utilizing **CRON** jobs to schedule these tasks efficiently. By leveraging the **Twilio** API, the service ensured that notifications were delivered reliably via SMS. The application was hosted on **AWS EC2**.

I served as the key developer on this project, responsible for creating the application architecture and implementing the entire logic. I also developed **Unit tests** to ensure the reliability and functionality of the application and assisted with the deployment.

Tech stack: Node.js, Nest.js, Docker, Twilio, AWS EC2.

- **Technical Audit for Low Performance and Poorly Scalable Project.**

Conducted a comprehensive technical audit of an underperforming and poorly scalable backend system, writtend completely in **vanilla JavaScript**. The primary objective was to analyze the entire backend architecture to identify vulnerabilities, architectural flaws, and performance issues that hindered the system's efficiency.

I played a key role in analyzing the backend part of the project, systematically assessing its components and workflows. I analyzed the code for performance, cleanliness, and correct application of programming principles including **design patterns**, **SOLID** principles, general software architecture. Additionally, I evaluated the production database for proper schema design, organization and queries performance including **indices** analysis, **joins** utilization, database **normalization**. I identified various vulnerabilities and architectural deficiencies, along with performance bottlenecks, and documented my findings. Based on this analysis, I developed a comprehensive solution plan that outlined actionable recommendations for enhancing the system's performance and scalability.

Tech stack: NDA.

Fullstack Engineer *(ROCKETECH)*   *01/2023 - 04/2023*

- **Mobile Real-time Game in Crypto Area.**

A mobile game designed to engage users with very simple gameplay that integrates cryptocurrencies technology. The project aimed to provide a seamless and enjoyable user experience while ensuring robust backend support for real-time interactions and secure transactions.

As a key backend developer, I developed the entire backend logic, including the architecture and implementation of **unit tests** for reliability. Additionally, I was responsible for the frontend of the admin panel, creating an intuitive interface using **React.js** and **Redux.js**. The backend was built using **Node.js** and **Nest.js**, incorporating **WebSockets** via library **Socket.io** for real-time communication, **Redis** for caching, **Twilio** for notifications, and **Stripe** for payment processing, all hosted on **AWS** with **PostgreSQL** for data management.

Tech stack: Node.js, Nest.js, WebSockets, Redis, Twilio, Stripe, PostgreSQL, Docker, AWS, React, Redux.

Fullstack Engineer *(EPAM Systems)*   *02/2020 - 10/2022*

- **Backend Service for Fintech (Internal Use Only).**

Backend service tailored for internal use within a fintech organization, focusing on creation of ETL process and enhancing data management.

I developed serverless backend logic using **AWS Lambda**, enabling the application to scale efficiently while minimizing operational costs. In addition to backend development, I played the role of a test automation engineer, creating automated **unit** and **integration** tests to ensure the reliability and performance of the service. I utilized various AWS services, including **DynamoDB** for database management, **Step Functions** for orchestrating workflows, and **SNS** for notifications, to create a robust and efficient backend infrastructure.

Tech stack: Node.js, Nest.js, AWS: Lambda, DynamoDB, Step Functions, SNS.

- **B2B Fintech Service for Collecting Consumer Data.**

B2B fintech service designed to collect and present consumer data, taken from various not formatted sources in a format tailored to the needs of financial specialists.

I was responsible for developing both the backend and frontend of the application, utilizing **Nest.js** for the backend and **React.js** for the frontend. I wrote comprehensive **unit** and **integration** tests to ensure code quality and reliability. A significant part of my work involved interfacing with legacy code, which required careful consideration to maintain

existing functionality while implementing new features. I also leveraged AWS for deployment and **MySQL** on **AuroraDB** for efficient data management.

Tech stack: Node.js, Nest.js, React.js, AWS, MySQL, AuroraDB.

- **B2B Fintech Service for Data Scraping.**
B2B fintech service aimed at scraping data from various sources and integrating it into a comprehensive system for use by multiple financial applications.

I was responsible for developing both the backend and frontend of the application, utilizing **C#** with **.NET Core** and **Node.js** with **Express.js** for the backend and **Angular** for the frontend. I wrote extensive **unit** and **integration** tests to ensure the reliability and functionality of the system. I also worked with **PostgreSQL** for effective data management and storage.

Tech stack: Node.js, Express.js, Angular, C#, .NET Core, AWS, PostgreSQL.

- **Backend Authorization Service for Internal Infrastructure.**
Backend only authorization service designed to support a large internal infrastructure, ensuring secure and efficient access control for various applications and services.

As a backend developer, I was responsible for creating the core functionality of the authorization service, implementing authorization plicies, writing **unit tests** to verify the reliability and security of the service, ensuring it met the organization's requirements. The service utilized C# with .NET Core for development, with **AWS** for hosting and **PostgreSQL** and separately **AuroraDB** for data management.

Tech stack: C#, .NET Core, AWS, PostgreSQL, AuroraDB.

Online Courses & Certifications

- AWS Certified Cloud Practitioner - [Verify](#)

- UI/UX Designer by Beetroot Academy - [Verify](#)

- Nest.js official courses: Authorization - [Verify](#)

- Nest.js official courses: Fundamentals - [Verify](#)

Skills I know and am willing to work with

- **Programming Languages:** JavaScript, TypeScript

- **Backend:** Node.js, Nest.js, Express.js, SQL DBs (MySQL, PostgreSQL), NoSQL DBs (DynamoDB, Redis), Websockets, Authentication/Authorization (OAuth, JWT, Passport.js)

- **Frontend:** React.js, Redux.js, Webpack, Vite, Tailwind, Bootstrap

- **Operations and Cloud:** Docker, AWS (entire infrastructure, both serverless and default), Jenkins, Git

- **Testing:** Jest, Mocha, Cypress

Languages

- **English** - Upper Intermediate

- **Ukrainian** - Native