

Kostiantyn Dontsov

Full stack developer

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United Kingdom, Winchester | open for relocation or remote

My Portfolio website - <https://dontsov-dev.vercel.app/>

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Full Stack Developer with over 1.5 years of experience in web application development. Proficient in technologies such as React, Next.js, Node.js, PostgreSQL, MongoDB, AWS, Jest, Redux and other modern tools. Optimized database query execution, reducing data processing time from 18 to 9 minutes by implementing connection pooling and bulk insertion. Integrated Elasticsearch to enhance global search functionalities. Created backend side on Node.js – routes, controllers, services, repositories, middleware's, validators, DTO, test (Jest). Created React reusable components, helpers, hooks, services, global state management on Front end side and connect it together. Created posts and users management functionality for education platform. Creating a development environment in postman. Developed visually appealing and responsive websites using HTML, CSS, and JavaScript, achieving a 90-100 score in Google Core Web Vitals.

KEY SKILLS:

Languages:

- JavaScript/TypeScript.
- Python - basic
- SQL.

Databases:

- PostgreSQL.
- MongoDB.
- MySQL.

Source control:

- Git.
- Bitbucket.

Tools:

- GitHub.
- Jira.

Technologies:

- Node.js.
- React.
- Next.js.
- Postman.
- AWS.
- Express.js.
- Jest.
- REST API.
- Design patterns.
- React testing library.
- Redux.
- Nest.js.
- Docker

EMPLOYMENT HISTORY:

Employer: Meduzzen,

July 2024 – Present

Role: Junior Full stack developer

• **Node.js/React:** Created backend side on Node.js – routes, controllers, services, repositories, middleware's, validators, DTO, test (Jest), created React components, helpers, hooks, services on Front end side and connect it together. Created posts and users management functionality for education platform.

• **Unit testing:** Created unit tests with Jest for backend and front-end functionality.

• **Automation Scripts for Data Migration and Stress tests:** Developed JavaScript scripts to automate the migration of data from old MySQL databases to new MySQL and MongoDB databases, created stress test for testing server load capabilities.

• **Database Query Optimization:** Enhanced the performance of database queries by reducing execution time. Initially, processing 2,000 rows of data took 18 minutes; after implementing bulk insertion and using connection pooling, the script's runtime was reduced to 9 minutes.

- **Elasticsearch Integration:** Integrated Elasticsearch into the backend (Node.js) and frontend (React) of the project. Developed functionality for global searching posts and post comments using single or multiple keywords. Synchronized databases with Elasticsearch Cloud Store for direct querying and optimized performance. Implemented data validation and keyword highlighting in the search results for posts and comments.

Employer: Digital Horizon AweGoo,

May 2024 – July 2024

Role: Full stack developer (Internship)

- **Code Review and Optimization:** Conducted code reviews and optimized performance across multiple areas of the project.
- **Backend Development with AWS Amplify Gen 2:** Developed backend components using AWS Amplify Gen 2, including creating queries, API endpoints, and Lambda functions to automate requests to third-party APIs. Integrated AWS Amplify authentication for both backend and frontend.
- **PostgreSQL Integration with AWS RDS:** Connected the existing PostgreSQL database to AWS Amplify RDS. Created SQL queries to efficiently fetch and manage data from the AWS RDS database.
- **Lambda Functions for Data Automation:** Developed Lambda functions to automate data retrieval from Amazon APIs and store the data in the database.
- **API Endpoints with AWS API Gateway:** Created and deployed API endpoints using AWS API Gateway to handle incoming requests and manage interactions between the front and backend systems.
- **Frontend Data Fetching:** Implemented functions on the frontend to fetch data from the backend, ensuring seamless integration and communication between client and server.

Employer: self-employed, volunteer

Feb 2023 – July 2024

Role: Full stack developer

- **Front-End Development:** Built visually appealing and responsive websites using HTML, CSS, and JavaScript, establishing a strong UI foundation – taking 90-100 score from Google Core Web Vitals.
- **React Application with OpenAI Integration:** Developed a React application that integrates OpenAI's API, supported by a Node.js/Express backend with a PostgreSQL database.
- **UI/UX with Material UI and Tailwind CSS:** Implemented Material UI components and Tailwind CSS to enhance the visual design and user experience of the React application.
- **Interactive Map Application:** Created a React-based map application utilizing the MapTiler API, enabling dynamic map interactions.
- **Ecommerce Full-Stack Application:** Developed a full-stack ecommerce application from scratch using Next.js (TypeScript), Node.js/Express, PostgreSQL with Prisma ORM for database queries, and AWS S3 for image storage.
- **Kanban Board with GitHub Integration:** Built a Kanban board application with GitHub issues integration, using the GitHub API and adding drag-and-drop functionality.

EDUCATION AND QUALIFICATIONS:

National Academy of Law - Master's degree in law.

Hillel IT School, Ukraine - TypeScript courses | React courses | Front end developer courses | Node.js courses.

Codefinity – SQL courses | Next.js courses.

W3Schools, London - Web development bootcamp.

References Available on Request