

Vitali Gerzhuk

SOFTWARE ENGINEER

PERSONAL PROFILE

Full-stack developer focused on building web applications with TypeScript, React, Angular, Express and NestJS. I've developed scalable applications and integrated secure back-end services. I'm passionate about solving real-world problems and eager to contribute to dynamic teams.

PROJECTS & STARTUPS

3D Marketplace Platform

Tech Stack: Angular, NestJS, TypeORM, Three.js, TypeScript, Tailwind CSS, RxJS, Azure Blob Storage, PostgreSQL, Stripe API.

- Developed a 3D marketplace platform within 4 month enabling users to securely browse, purchase, and preview 3D models in real-time.
- Created an interactive 3D viewer with Three.js, allowing users to explore 3D models.
- Implemented JWT authentication and Stripe for secure transactions and payment processing.
- Integrated Azure Blob Storage for scalable storage of large 3D assets, ensuring fast load times.
- Implemented advanced sorting, filtering and infinite scrolling features using RxJS to optimize user navigation and enhance the overall user experience.
- Wrote over 4,000 lines of code using TypeScript, Angular and NestJs. Integrated 2 external APIs for payment processing and file storage.

AI Movie Recommender

Tech Stack: React, TypeScript, ExpressJS, Styled Components, Google Generative AI API

- Developed an AI-driven web application that generates response based on user input, leveraging Google Generative AI API.
- Integrated the Google Generative AI API with ExpressJS to handle requests and process AI responses efficiently.
- Implemented debouncing techniques to optimize application performance, resulting in a 30% reduction in API calls and improved user experience.

Personal Website

Tech Stack: Tailwind CSS, GSAP

- Developed a personal portfolio website to showcase projects, skills and experience, using Tailwind CSS for responsive design and modern UI.
- Integrated smooth animations and interactive elements with GSAP to enhance user engagement and create a visually dynamic experience.
- Optimized the website for performance and accessibility, ensuring seamless navigation across devices and browsers.
- Spent 40+ hours learning GSAP and designed working animations in 2 weeks, leading to increasing average user time on page by 100%.

Library App

Tech Stack: C#, ASP.NET 5, SQL Server, Dapper ORM, Bootstrap, MVC

- Developed a full-stack library management system from scratch using the MVC architecture, handling both front-end and back-end development.
- Implemented role-based authentication (admin, user) to control access to different features, ensuring secure management of digital resources.
- Used Dapper ORM with a code-first approach for database management, optimizing SQL Server interactions for better performance and flexibility.
- Designed and managed the database schema using SQL Server, ensuring efficient storage and retrieval of book metadata and user roles.
- Developed 3 key modules for user authentication, catalog and admin dashboard over 8 weeks.

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SKILL SET

Programming Languages

JavaScript (ES2015+),
TypeScript, C#, C++, SQL,
HTML, CSS, SASS

Frameworks & Libraries

Angular, React, Redux, Node.js,
Express.js, Nest.js, TypeORM,
TailwindCSS, Material UI

Development Tools

Postman, Git, Jira, Webpack,
Docker, Rest API, GraphQL

Databases

PostgreSQL, SQL Server,
MongoDB

ADDITIONAL SKILLS

- Strong problem-solving and critical thinking abilities.
- Excellent collaboration and communication skills in team environments.
- Experience working in Agile/Scrum development environments.
- Ability to learn and adapt to new tools and technologies quickly.

EDUCATION

Bachelor of Software Engineering

State University of Intelligent Technologies and Telecommunications