

Ivan Germanov

Software Engineer

✉ me@ivan.it.com 🌐 www.ivan.it.com 📍 Sofia, Bulgaria



EXPERIENCE

Frontend Engineer

Post.news

📅 09/2023 - 04/2024 📍 New York, United States, Remote

News content platform (similar to X), early-stage startup.

- Built a web and mobile (Android, iOS) news content platform using Solid.js, Solid Start, TypeScript, Capacitor, XState, Zod, Cypress, Vite, and Vitest.
- Implemented features such as related tags for posts, content reposting, profile customization, and native push notifications with OneSignal.
- Implemented accessibility improvements to meet A11Y standards.
- Developed native iOS and Android sharing functionality, enabling users to share posts and profiles directly via the system's native share sheet (e.g., sharing to other apps, saving to notes).
- Implemented Amplitude for A/B testing, contributing to decisions that improved user retention.
- Implemented user behavior tracking using Singular, capturing metrics to inform product decisions.
- Revamped multiple components of the platform to align with new Figma design system, and was responsible for maintaining the alignment between design specifications and product.
- Developed and maintained dynamic email templates for newsletters using MJML, ensuring daily delivery to all users.
- Developed and maintained automated Cypress end-to-end tests to prevent regressions.

Software Engineer

Axion BioSystems

📅 11/2020 - 08/2023 📍 Eindhoven, Netherlands

Biomedical company, advanced microscopes and cloud-based platform for cellular experiments.

- Migrated a legacy WPF application to a modern web stack using Electron, Vue, TypeScript, and WebSockets, based on Figma prototypes that I designed and refined through user testing.
- Built and optimized video and image export containers deployed on Microsoft Azure, leveraging C#, Node.js, Docker, and FFmpeg.
- Led initiative to transition from a monolithic frontend to a modular monorepo using pnpm workspaces.
- Led codebase migration effort from Vue 2 to Vue 3 by leading team meetings and writing a wiki to document the process.
- Migrated project from Tailwind 1 to Tailwind 2, verified migration using BackstopJS, and reduced CI/CD pipeline build time by 5x.
- Established CI/CD pipelines for publishing JavaScript and Vue packages to a private Azure registry, enabling reuse across projects.
- Improved code maintainability and separation of concerns by introducing the Axios repository pattern in TypeScript.

EDUCATION

MSc in Computer Science and Engineering

Eindhoven University of Technology

📅 2022 - 12/2024

- Master thesis 8.5/10
- Data structures and Algorithms, Advanced algorithms
- Architecture of Distributed Systems, Big Data Management
- Machine Learning, Deep Learning
- Database modelling
- Probability and Statistics, Calculus, Logic and Set Theory
- Automata, Language Theory and Complexity
- Technology Entrepreneurship and Marketing

BSc in ICT and Software Engineering (Cum Laude)

Fontys University

📅 2017 - 2021

High School Diploma

First English Language School (FELS)

AWARDS



Best Student Award

Ranked 2nd highest GPA (9.0/10) out of ~200 students

FIND ME ONLINE



Personal Website

www.ivan.it.com



GitHub

www.github.com/ivangermanov



LinkedIn

www.linkedin.com/in/ivangermanov

EXPERIENCE

Junior Software Engineer

CytoSMART Technologies

📅 10/2019 - 10/2020 📍 Eindhoven, Netherlands

- Built and designed browser-based image processing tools using Vue, TypeScript, WebGL, C# and Microsoft Azure.
- Collaborated with the team to transition web pages from ASP.NET to Vue SPA.
- Introduced Cypress for end-to-end testing and increased unit tests from 300 to 1000 (92% coverage) through Test-Driven Development (TDD).
- Improved developer workflow by integrating Git hooks (husky) and ESLint to automate code quality checks.

Software Engineer Intern

CytoSMART Technologies

📅 03/2019 - 09/2019 📍 Eindhoven, Netherlands

- Developed an interactive visualization application for cell colony analysis using React, Redux, LeafletJS, and D3.js.
- Optimized dynamic filtering and visualization of tens of thousands of data points.
- Improved storage and retrieval performance of gigabytes of data using Azure Blob Storage.

PERSONAL PROJECTS

Kraft Heinz Overfill

📍 Iowa City, United States, Remote

🔗 <https://github.com/ivangermanov/heinz>

Created an app to predict product overfill in a Kraft Heinz factory.

- Gathered on-site information and requirements about factory operations and data flows.
- Developed interactive graphs and visualizations related to overfill metrics using Vue, Quasar, and ECharts.
- Developed a Python Flask backend integrating scikit-learn and TensorFlow models for predictions.

Room Reservation System for University

🔗 <https://github.com/ivangermanov/frooms>

Developed an interactive room reservation system.

- Developed an interactive room reservation system as a Progressive Web App (PWA) using Vue and Nuxt.js.
- Implemented a dynamic map for room reservations with LeafletJS.
- Built a back-end REST API using C# ASP.NET by following the repository pattern, dividing the API into controllers, services, and a database layer.
- Integrated the university's open API for real-time room availability.
- Managed database schema evolution using migrations.

SKILLS

Languages

JavaScript **TypeScript** **C#**

Python **Java** **PHP** **SQL**

HTML **CSS/Sass/SCSS**

GLSL/WebGL

Frameworks and Libraries

Vue **Vuex** **Nuxt** **React**

Solid **Laravel** **Electron**

Capacitor **Tailwind** **Bootstrap**

Webpack **Vite** **ESLint** **Jest**

Vitest **Cypress** **ASP.NET**

Node.js **Express** **Flask** **MJML**

Tools and Technologies

Git **Docker** **Linux** **pnpm**

Turborepo **Azure Pipelines**

GitHub Actions

Cloud & Databases

Microsoft Azure **AWS**

SQL Server **MySQL**