

# Anna Rychkova

## Software Engineer (Node.js / TypeScript | Backend & Fullstack)

Visa: Stamp 4

Phone: +353 85 286 35 18

Email: [anna.rychkova.dev@gmail.com](mailto:anna.rychkova.dev@gmail.com)

GitHub: <https://github.com/AnnaRychkova1>

LinkedIn: <https://www.linkedin.com/in/annarychkova1/>

Portfolio: <https://annarychkova.dev/>

## Profile

---

**Software Engineer** focused on backend and full-stack development using **Node.js, TypeScript, React, and REST APIs**. Experience building and deploying web applications with authentication, role-based access control, database integrations, and **automated testing**. Comfortable working in Agile environments with **GitHub workflows**, pull requests, and collaborative development practices.

## Skills

---

- **Backend:** Node.js, Express.js, REST APIs, gRPC, JWT Authentication, RBAC, API Testing, Input Validation
- **Frontend:** React, Next.js, Redux, TailwindCSS
- **Databases:** MongoDB, MySQL, Supabase
- **Testing:** Jest, Unit Testing, Mocking
- **Languages:** JavaScript, TypeScript, Java, SQL
- **Tools:** Git, GitHub, Docker, Postman, Swagger, Vercel
- **Concepts:** Client–Server Communication, Authentication & Authorization, Networking (HTTP, DNS, TCP/IP)

## Projects

---

### Attaboy Dog Training | Production Business Platform

*Next.js | React | Firebase | TailwindCSS | Vercel*

- Built and deployed a live business platform for a dog training service
- Increased customer inquiries and client referrals by ~30% through improved booking and contact workflows
- Implemented Firebase Auth with role-based access for admin/client workflows
- Automated booking emails and managed production deployments via Vercel + GitHub workflows

### Smart Recruitment | AI-Assisted Screening System

*Node.js | Express | gRPC | MongoDB | OpenAI*

- Built backend recruitment system using Node.js microservices with gRPC communication
- Implemented AI-powered CV parsing and candidate ranking, reducing screening time from ~10 min (~30 CVs) to ~20 sec batch processing
- Designed and implemented unary, streaming, and bidirectional gRPC service communication
- Built automated candidate filtering and ranking system using MongoDB query logic

### CodeCraft | Interactive Coding Platform

*Next.js | TypeScript | Supabase | Jest*

- Built a full-stack coding platform with authentication and admin features
- Integrated Piston API for code execution and automated validation with sub-1s response time
- Implemented RBAC and Supabase Row Level Security for protected data access
- Wrote unit tests with Jest for authentication, admin logic, and error handling workflows

## **AquaTrack | Water Tracker App**

*React | Node.js | Express | MongoDB*

- Collaborated in an 11-person team to build a hydration tracking application used by ~60 users
- Developed REST APIs for hydration tracking, activity logging, and user management
- Integrated Google OAuth authentication to simplify user sign-in and onboarding
- Worked across frontend and backend modules to support stable API integration and testing

## **Work Experience**

---

### **State Street | Cyber Security Bootcamp Participant (SOC & Fusion Center)**

*Dec 2025 - Mar 2026*

- Hands-on training in system monitoring, API behaviour, and security concepts
- Explored authentication, access control, and API vulnerabilities through practical labs
- Worked with scenario-based security analysis (MITRE ATT&CK framework)

### **Freelance Full-Stack Developer**

*2023 – 2025*

- Developed and deployed production-ready web applications using Node.js, TypeScript, React, Next.js, and MongoDB
- Designed REST APIs with authentication and role-based access control (JWT, RBAC)
- Developed backend services for data validation, integrations, and secure data handling
- Wrote and tested backend logic using Jest
- Applied client-server architecture principles across multiple projects
- Managed deployments using GitHub and Vercel
- Worked with GitHub workflows including pull requests, code reviews, and version control

### **Carlow County Development Partnership | Community Car Administrator**

*2023*

- Managed operational data and documentation with high accuracy
- Supported process improvements and cross-functional collaboration

### **Zhytomyr Secondary School | Mathematics and Physics Teacher**

*2006 – 2011*

- Developed strong analytical and structured problem-solving skills
- Experience in communication and explaining complex concepts clearly

## **Education & Certification**

---

**CompTIA Network+ Certificate** | 2026

**Higher Diploma in Science in Computing** | National College of Ireland | 2024 – 2025

**Full Stack Developer** | GoIT Academy | 2023 – 2024

**Carlow Institute (VTOS)** | English with Office Administration | 2022 – 2023

**B.Ed. Teacher of Physics and Mathematics** | Zhytomyr State University | 2001 – 2006

## **Additional Information**

---

Focused on backend engineering, secure API development, and improving backend architecture skills.

Continuously improving cloud, Docker, and system design skills.

Member of Carlow Dragon Boat Club (competitive team experience).