Anna Rychkova
Software Engineer

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Profile

- Graduate **Software Engineer** with **First-Class Honours in Computer Science**.
- Experienced in designing and developing **full-stack applications**, **REST APIs**, and **microservices-based systems**.
- Strong foundation in **data structures**, **algorithms**, **distributed systems**, and **object-oriented design principles**.
- Demonstrated **ownership** of projects, including leading small teams, coordinating delivery, and ensuring high-quality implementation.
- Detail-oriented and adaptable **team player** with hands-on experience delivering software in Agile environments.
- Seeking to contribute to scalable, production-ready solutions within a collaborative engineering team.

Education

2024-2025 | National College of Ireland | Higher Diploma in Science in Computing
Modules: Software Development, Object Oriented Software Engineering, Introduction to Databases, Web Design and Client-Side Scripting, Computer Architecture Operating Systems and Networks, Data Structures, Algorithms and Advanced Programming, Distributed Systems

2023-2024 | GoIT Academy | Full Stack Developer
Modules: HTML+CSS, JavaScript, React, Node.js, TypeScript, Career Skills, Soft Skills

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

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

Technical Skills

- **Programming Languages:** Java, JavaScript, TypeScript, SQL
- **Frontend:** React, Next.js, Redux, Tailwind, HTML5, CSS3, SASS
- **Backend & APIs:** Node.js, Express, REST, gRPC, MongoDB, Firebase, Supabase
- **Cloud & DevOps:** Docker, Git/GitHub, CI/CD pipelines, Agile/Scrum, AWS (learning)
- **Testing & QA:** Jest, React Testing Library, Cypress, Unit & Integration Testing
- **Other Tools:** Figma, Jira, Linux

Projects

CodeCraft – Solo Project | Next.js, Supabase, TypeScript, Piston API
- Developed an interactive coding platform with real-time code execution, analytics, and secure authentication.
- Applied design patterns and clean architecture principles for scalable software delivery.

Smart Recruitment – Solo Project | Node.js, Express.js, gRPC, MongoDB, OpenAI
- Built a distributed microservices system for AI-assisted candidate screening and interview scheduling.
- Automated over 70% of manual workflows, demonstrating efficiency improvements aligned with DevOps practices.

Attaboy Dog Training – **Team Lead | Next.js, Firebase, Cloudinary**
- Led a 3-member team to deliver a live business website with admin dashboard and automated email workflows.
- Improved client engagement by 40%, highlighting impact of user-focused software solutions.

AquaTrack – **Team Lead | React, Node.js, Express.js, MongoDB**
- Coordinated an 11-member team to deliver a hydration-tracking app with full authentication and API documentation.
- Ensured seamless data synchronization and optimized development processes.

Work Experience

December 2025 - March 2026 | State Street | Cyber Security Bootcamp (SOC & Fusion Center)
- Completed hands-on training in Security Operations workflows within a structured enterprise environment.
- Strengthened understanding of system behaviour, threat detection concepts, and incident analysis processes.
- Performed practical labs and scenario-based exercises to enhance analytical and investigative skills.

2023-2025 | Software Developer (Projects & Volunteering)
- Contributed to multiple web application projects in both individual and team-based environments.
- Designed and implemented role-based authentication and secure access control mechanisms.
- Built full-stack applications with protected routes, API integrations, and structured backend architecture.
- Worked with distributed client–server systems, strengthening understanding of networking and system design principles.

2023 | Carlow County Development Partnership | Community Car Administrator
- Maintained operational records and documentation, ensuring accuracy and compliance.
- Supported process improvements to enhance service efficiency.
- Coordinated communication between stakeholders and service users.

2011-2022 | Career break
- Managed family responsibilities while undertaking temporary and part-time roles.

2006-2011 | Zhytomyr Secondary School | Mathematics and Physics Teacher
- Applied structured analytical thinking and problem-solving methodologies.
- Improved student performance by 20% through data-driven progress analysis.
- Maintained detailed documentation and reporting standards.

Additional Information

Professional Development: Actively preparing for CompTIA Network+ certification while strengthening knowledge in networking, system security, and secure software development principles.

Activities: Member of Carlow Dragon Boat Club – national and international award winner.

Soft Skills: Teamwork, adaptability, analytical thinking, attention to detail, growth mindset.