Nikita Kroshko

Manchester   kroshkonikita@gmail.com   0 7466 653842   in Nikita Kroshko   Nikita Kroshko

Education

University of Manchester   *Sept 2024 – Jun 2027*
BSc (Hons) in Computer Science   *(expected)*

- **Coursework:** Algorithms and Data Structures, Programming Languages & Paradigms, Software Engineering 1 and 2, Processor Microarchitecture, Introduction to Artificial Intelligence, Database Systems, Microcontrollers, Distributed Systems, System Architecture
- **Degree Qualification:** First Class Honours in Computer Science (84.8%) top 10 in cohort of 300

Projects

Ruby Blog   Live Demo GitHub

- Full-stack blog application built using Ruby on Rails, JavaScript, and Tailwind CSS, with a focus on Rails conventions, MVC architecture, and scalable design practices.
- Deployed the application on Heroku to enable easy access and live experimentation, and implemented an automated deployment pipeline to ensure continuous updates and smooth iteration.
- Performed structured testing with 5 university students, using established QA procedures to enhance overall functionality and usability before deployment.
- Developed practical, hands-on skills in user authentication, routing, and deployment workflows by building and deploying fully functional applications.

Noom Racing Quiz   University Gitlab

- Multiplayer quiz racing game built with React, Node.js, TypeScript, and Tailwind CSS.
- Process up to 10 players WebSockets connections for each lobby with a hypothetical limitless lobby count.
- Implemented real-time multiplayer mechanics where players answer trivia to speed up cars and avoid obstacles, synchronizing game state via WebSockets for smooth, low-latency gameplay.
- Managed a 5-person front-end team, overseeing development tasks and enhancing skills in socket communication, teamwork, full-stack collaboration, problem-solving, and mentorship.

Skills

- Problem Solving, Critical Thinking, Communication, Teaching, Analysis, Computer Science, Mathematics
- Programming (Java, Python, C, C++, Ruby, Bash, JavaScript, HTML, CSS, React, RISC-V, Verilog, Git)
- Spoken Languages and Fluency Level (English C2, Russian C2, German B1, Serbian A1, Macedonian A1)

Experience

AWS APAC Solutions Architecture Job Simulation   *Manchester, UK (Forage)*
Amazon Web Services   *June 2025*

- Built a single scalable hosting solution using AWS Elastic Beanstalk to improve app performance.
- Configured EC2, RDS, and Auto Scaling for improved reliability and optimized speed.
- Explained the system architecture in clear, concise, non-technical terms for client clarity.
- Provided a detailed estimated cost breakdown based on usage patterns and AWS pricing tiers.
- Identified $500 in monthly savings for the assigned team through migration from the existing cloud provider.

Academic Awards

University of Manchester Awards   Sep 2024 - Jun 2027
Sep 2024 - Jun 2025 Netcraft prize (Top 10 student in c.s. cohort of 300)
International School of Belgrade Awards   Aug 2021 - May 2024
Aug 2023 - May 2024 Higher Honors Twice, and Salutatorian
Aug 2022 - Jun 2023 Honors and Higher Honors
Aug 2021 - Jun 2022 Honors and Higher Honors