BOHDAN BOZHENKO

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personal website

linkedin

SUMMARY

Highly motivated Computing Student with a solid academic foundation in Computer Science, Software Engineering, and Information Technology. Passionate about learning new technologies and collaborating in team environments. Seeking a graduate position where I can apply my programming skills, contribute to innovative projects and continuously develop my expertise to support the organization's success.

WORK EXPERIENCE

Volunteer - The Devil's Porridge Museum
Dumfries, UK
Dec 2024 - June 2025.

The Devil's Porridge Museum is a heritage museum dedicated to preserving and presenting the history of HM Factory Gretna, one of the largest munitions factories in the world during the First World War, through exhibitions, events and educational outreach.

- Maintained and updated the organisation's website by adding new content, refining page structure and improving usability, leading to higher visitor engagement and clearer event information.
- Supported event organisation by coordinating schedules, assisting with promotions and managing digital outreach activities across online channels.
- Increased event enquiries to more than double initial expectations through improved online visibility and targeted communication, resulting in 50+ additional participants.

PROJECTS

- **Programming Helper AI** (Next.js, React, Tailwind, TypeScript, OpenAI API)

  Developed an AI-powered web application that assists users in learning programming by providing real-time explanations, code suggestions and problem-solving guidance, improving learning efficiency and user engagement through an intuitive and scalable interface, demonstrating the application of AI in programming education

- **Real-time Chat Application** (Spring Boot, WebSocket (STOMP), React, PostgreSQL)

  Built a real-time messaging platform enabling instant communication between users, with reliable message delivery, persistent data storage and a responsive UI designed for scalable concurrent usage, suitable for real-time communication features in web platforms.

- **CryptoChartApp** (Java, CoinMarketCap API, JFreeChart)

  Created a desktop application that fetches live cryptocurrency market data and visualises price trends through interactive charts, helping users analyse market movements and make informed decisions.

EDUCATION

Bs'c (Hons) Computing - Glasgow Caledonian University
Glasgow, UK
Sep 2023 - Present.

Software Engineering & OOP │ Data Structures & Algorithms │ Data Structures & Algorithms │ Data Structures & Algorithms │ Web Application Development (I & II) │ Data Structures & Algorithms │ Computer Networks & Cloud Computing │ DevOps │ Secure Software Development │ Honours Project (Programming Helper AI)

Cyber Security HNC @SCQF Level7 - Dumfries and Galloway College
Dumfries, UK
Aug 2022 - Jun 2023.

- Conducted a comprehensive analysis of cybersecurity principles and applied them in practical projects, focusing on system vulnerabilities and protection mechanisms.
- Analyzed and processed large data sets, applying big data tools and techniques to derive insights, ensuring efficient data management and analysis.
- Applied theoretical concepts of computer networks and implemented secure networking practices to ensure confidentiality and integrity in communication systems.

Junior Bachelor's Degree in Software Engineering
National Aerospace University "KHAI" M.E. Zhukovsky

- Implemented data structures and algorithms to improve application performance.
- Developed a .NET-based application with a focus on clean, scalable architecture.
- Designed and managed SQL relational databases for efficient data storage and processing.
- Performed functional and regression testing to ensure application reliability.
- Identified and documented security vulnerabilities, contributing to remediation before deployment.

TECHNICAL SKILLS

- **Programming & Web Development** (JavaScript, TypeScript, React, Next.js, HTML, CSS)
  Developed full-stack web applications including Programming Helper AI, implementing responsive UIs and reusable components.

- **Backend & APIs** (RESTful APIs, JSON, XML, Spring Boot, WebSocket/STOMP)
  Built and integrated backend services for real-time communication and data exchange in web applications.

- **Databases** (PostgreSQL, MySQL, MongoDB)
  Designed and used relational and NoSQL databases to store persistent application data.

- **Version Control & Collaboration** (Git, GitHub)
  Used Git for version control, feature branching and collaborative development across academic and personal projects.

- **DevOps & Deployment** (Docker, CI/CD, Jenkins, AWS)
  Containerised applications, configured CI/CD pipelines and deployed services to cloud environments.

- **Development Tools** (IntelliJ IDEA, Visual Studio Code, PyCharm, Postman)
  Used industry-standard IDEs and API testing tools for development, debugging and validation.

- **AI & API Integration** (OpenAI API)
  Integrated AI APIs to deliver real-time intelligent responses in an educational web application.

TRANSFERABLE SKILLS

- **Problem Solving** - Resolved technical issues during full-stack and real-time application development.
- **Critical Thinking** - Assessed design and technology choices to build scalable, maintainable solutions.
- **Teamwork & Communication** - Collaborated effectively with supervisors, peers and non-technical stakeholders.
- **Software Testing & Documentation** - Tested application features and produced clear technical documentation.
- **Time Management & Organisation** - Managed academic projects, volunteering and deadlines effectively.

LANGUAGES

English - Upper Intermediate
Ukrainian - Native
Russian - Native

HOBBIES AND INTERESTS

- Interests**:** Technology, PC building/tuning, Cars, Video Gaming, Modern Music.