Dmytro Havrysh

+421 951 587 179 | dmytro.havrysh@outlook.com | LinkedIn | GitHub | Košice, Slovakia

Education

Technical University of Košice (Faculty of electrotechnics and informatics) — Košice, Slovakia
MSc in Informatics; — *Sep 2023 – Present*
BSc in Informatics; — *Sep 2020 – Jun 2023*

Skills

Languages: C/C++, C#, Java, Python, JavaScript, SQL

Technologies: Django, MySQL, Git, Docker, OpenCV, Linux, .NET, ASP.NET, Razor Pages, gRPC, MQTT, REST API, PostgreSQL, Spring Framework, Node-RED, KNX, Home Assistant, CMake, GTest /GMock

Languages Proficiency:

English - B2 (Upper Intermediate) | **Slovak** - B2 (Upper Intermediate) | **Ukrainian** - Native

Awards & Achievements

Live IT Projects - 5th Place | *Video*

Enhanced IoT System based on KNX Technology. We began by resetting pre-installed systems in the IoTlab, then reconfigured and optimized them against specific criteria. Our work included developing user-friendly interfaces for efficient device management, significantly improving system functionality and automation. (2024)

DTIT SK Hackathon - Top Solution in Chosen Theme | *Presentation*

Developed an innovative solution that leverages GPT API for analyzing web pages for UI/UX errors, significantly enhancing the web development process by automating the detection of design and usability issues. Integrated Google's PageSpeed Insights API for assessing page load performance, providing comprehensive feedback on optimization opportunities. Employed Python for both AI interactions and backend development, ensuring robust data processing and seamless operation. Designed the frontend using React, creating an intuitive user interface for real-time analysis and reporting of web page evaluations. (2023)

ErsteDigital Hackathon - 3th Place | *Presentation*

Implemented solution based on an Apple 'Tap to Pay' technology aimed at empowering small businesses, facilitating their shift from traditional payment systems to a more efficient, mobile-based platform. Utilized Java and Spring Boot for the backend development and React for the frontend, enabling seamless integration of contactless payment options for small businesses and enhancing customer transaction experiences. (2023)

DTIT SK Hackathon - 1st Place in "Košice 2.0" Category

Created the "City Rent Application", a project designed to assist young people, refugees, and low-income earners in locating affordable housing and compatible roommates. Developed using Java and Spring Boot for the backend, complemented by a React frontend, to deliver an effective solution within the event's tight deadline. (2022)

ErsteDigital Hackathon - Best Presentation Award

Collaborated on a project that developed an innovative IoT-based system for tracking student attendance, earning recognition for the best presentation. (2020)

Projects

Distributed System Application with PBFT Consensus in Blockchain | *GitHub*

- Developed a distributed system application to implement the PBFT consensus mechanism within a peer-to-peer blockchain network, ensuring all blockchain replicas remained consistent across the network. Developed Python and gRPC for the project due to their efficiency in handling complex network communication and data processing tasks. Focused on creating a robust solution that could manage generic transactions within blockchain blocks, demonstrating the ability to maintain consistency using consensus algorithms.

Bachelor's Thesis: Unit Tests for COR System | *GitHub*

- Conducted a detailed analysis and comparison of various testing methods to enhance the COR software development process. Implemented automated unit testing for general result processing modules and the input file generator using C++, CMake, GTest/GMock, and Docker, covering a significant portion of the functionality.

Certificates

ETS eCampus KNX Certification *2023*

Awarded for successful completion of the KNX eCampus training with a score of 93%.