Laurik Helshani, PhD

Senior Software Engineer (Full Stack) | Software Development Manager

Prishtina, Kosovo | helshani@gmail.com
Citizenship: Kosovar | Languages: Albanian, German (C1), English (B2)



PROFILE

Senior full-stack software engineer and software development manager with more than 18 years of experience building business-critical systems for internet and cable TV providers, mobile telephony, manufacturing and IoT. Experienced in leading development teams, designing billing, ERP and production systems end to end, and integrating them through REST services. Holds a PhD in IT and has lectured in computer science since 2018, with ten scientific publications on optimization algorithms, IoT and artificial intelligence.

TECHNICAL SKILLS

Back end	C# (.NET 9), Java (Spring Boot), PHP (Laravel), Node.js (Express), Python (Flask), MicroPython
Front end	React, shadcn/ui, JavaScript, jQuery, ExtJS (Sencha), DataTables, Bootstrap, HTML, CSS
Databases	MS SQL Server (T-SQL), PostgreSQL, MySQL, PL/SQL
Data and BI	Power BI, Python (Pandas, NumPy, Matplotlib)
Integration and IoT	RESTful web services, scheduled jobs (cron), PLCs, Raspberry Pi Pico, Microsoft Dynamics NAV integration

PROFESSIONAL EXPERIENCE

Senior Software Engineer (Full Stack)
September 2025 – Present

XToka, Prishtina, Kosovo

- Develop full-stack features with C# on .NET 9, MS SQL Server, React and shadcn/ui.
- Contribute to the rewrite of a legacy airline booking system into a modern React and .NET platform, including the booking flow and online payment integration.
- Use Power BI to bring company data together in one place and present it in clear dashboards that support management decisions.

Technologies: C# (.NET 9), MS SQL Server, React, shadcn/ui, Power BI

Senior Software Developer (Remote)
September 2024 – May 2025

Ingress GmbH, Hamburg, Germany

- Worked remotely from Kosovo as a senior developer for a Hamburg-based software company.

Senior Software Engineer
September 2023 – August 2024

Devolli Corporation, Kosovo | Digitalization of the Prince Caffe factory

- Built production planning and monitoring based on IoT data from PLCs and Raspberry Pi Pico devices.
- Developed the raw material warehouse module and the module for production recipes and ingredients.
- Programmed the time and attendance system, including its devices.
- Provided and consumed RESTful web services to integrate the in-house system with Microsoft Dynamics NAV (Navision).

Technologies: Python 3, MicroPython, PostgreSQL, Bootstrap 4, jQuery, DataTables

Software Development Manager
January 2020 – June 2023

Devolli Group, Kosovo

- Led the digitalization of production processes.
- Developed a warehouse system to track and manage inventory.

- Created an application to assign work tasks to employees and monitor their performance, with reports that give managers a clear view of results.

Technologies: Python 3, MySQL, Bootstrap 4, jQuery, DataTables

Software Development Manager October 2017 – December 2019
Dardafon L.L.C. (Z Mobile), Kosovo

- Led the development of the company's internal intranet system.
- Designed and implemented customer number archiving for regulatory and operational purposes.
- Built a contract management system for business clients, covering mobile service contracts and tariff plans.
- Built a call categorization tool for organizing and analyzing customer support inquiries.
- Developed RESTful web services with Java Spring Boot 2 to integrate Z Mobile, a virtual operator, with VALA, Kosovo's national telecom provider.
- Worked with network engineering, business operations and customer support to keep the systems aligned with business goals.

Technologies: Java (Spring Boot 2), Node.js, ExtJS, PostgreSQL

Senior Software Developer January 2016 – September 2017
KujtesaNET, Kosovo

Member of a five-person team that built the company's custom Enterprise Resource Planning (ERP) system.

- Developed module logic in PHP and stored procedures in PostgreSQL.
- Created and managed scheduled tasks with cron jobs.
- Designed user interfaces with Sencha ExtJS.
- Provided RESTful web services for integration and communication across systems.

Technologies: PHP, PostgreSQL, Sencha ExtJS

Software Development Manager December 2007 – December 2015
KujtesaNET, Kosovo

- Led the development and maintenance of the company's billing system.
- Participated in the digitalization of cable TV services.
- Developed scheduled jobs that notify clients of upcoming service expiration and control internet and cable access based on billing status.
- Automated service reactivation after successful payment processing.

Technologies: PHP, ExtJS, MySQL

ACADEMIC EXPERIENCE

Professor, Faculty of Computer Science September 2018 – Present
AAB College, Prishtina, Kosovo

- Teach computer science courses alongside full-time industry work.

EDUCATION

PhD, Information Technology (Programming) 2013 – 2018
European University of Tirana, Albania

Software & Information Engineering 2000 – 2007
Vienna University of Technology (TU Wien), Austria

LANGUAGES

Albanian: native | **German:** C1 | **English:** B2 (reading and writing), B1 (speaking)

SCIENTIFIC PUBLICATIONS AND CONFERENCES

1. Helshani, L., & Berisha, B. (2025). The Application of Artificial Intelligence (AI) and the Internet of Things (IoT) in Natural Language Processing for Community Services. International Conference: Artificial Intelligence (AI) in the

Age of Transformation: Opportunities and Challenges. Prishtina. https://aab-edu.net/wp-content/uploads/2025/05/Book-of-Abstracts-AI-Conference-13-May-electronic.pdf

2. Helshani, L., Qarkaxhija, J., & Miftari, S. (2025). Development of a Low-Cost Voice Announcement System Using Google Text-to-Speech, Raspberry Pi, Python and SQLite. International Conference on Computer Science and Information Technology (CSIT@2025). Durrës.
3. Qarkaxhija, J., Hamdiu, J., Helshani, L., & Miftari, S. (2025). The Use of Artificial Intelligence in the Bank Card Industry. International Conference on Computer Science and Information Technology (CSIT@2025). Durrës.
4. Helshani, L., Qarkaxhija, J., & Prevalla, B. (2022). Sensor Based Algorithm for Self-Navigating Robot Using Internet of Things (IoT). International Journal of Interactive Mobile Technologies (iJIM), 16(23), 99–108. https://doi.org/10.3991/ijim.v16i23.36213
5. Helshani, L. (2016, June). Solving the Traveling Salesman Problem Using Google Services and Simulated Annealing Algorithm. European Academic Research, IV(3), 2321–2330. https://euacademic.org/UploadArticle/2573.pdf
6. Helshani, L. (2016, March). An Android Application to Solve the Shortest Path Using Google Services and Dijkstra's Algorithm. European Academic Research, III(12), 12949–12956. https://euacademic.org/UploadArticle/2398.pdf
7. Helshani, L., & Ramollari, E. (2016). The Travelling Salesman Problem, Applications and Solvers. (A. Civici, Ed.) Economicus – Scientific Journal (14). https://uet.edu.al/economicus/wp-content/uploads/2021/12/Economicus-14.pdf
8. Helshani, L., & Ervin, R. (2016). Comparative Study of Genetic Algorithm and Simulated Annealing Algorithm. Conference of Informatics and Management Sciences (ICTIC 2016). Slovakia.
9. Helshani, L. (2015). An Android Application for Google Map Navigation System, Solving the Travelling Salesman Problem, Optimization through Genetic Algorithm. Proceedings of FIKUSZ '15 Symposium for Young Researchers (pp. 89–101). Hungary. https://scispace.com/pdf/an-android-application-for-google-map-navigation-system-am2i176aah.pdf
10. Helshani, L. (2014). Algoritmi gjenetik si zgjidhje optimale (jo ekzakte) e problemit shitësi shëtitës. 1st International Scientific Conference: Ditët e Studimeve Shqiptare. Tirana: UET.

CERTIFIED TRAININGS

Organized by QAP at AAB College:

- Scientific Research at AAB (02.10.2021)
- Research-Based Teaching (25.01.2022)
- Higher Education Methodology from the Perspective of Adult Learning Principles (16.07.2022)
- Teaching, Assessment, and Formulation of Learning Outcomes at AAB (16.10.2022)