

Fitim Alickaj

Software Engineer

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PROFILE

Senior Software Engineer and Systems Architect specializing in intelligent systems, scalable architectures, and high-reliability software. My experience spans AI engineering, blockchain systems, robotics platforms, distributed systems, and cloud infrastructure, with full end-to-end ownership from requirements analysis and system design through deployment and long-term production stability.

I have designed and delivered advanced technology solutions for commercial, government, and sensitive environments, including projects conducted under strict confidentiality constraints. These systems required security-first architecture, performance guarantees, operational resilience, and precise execution under demanding conditions.

Skilled in backend engineering, AI integration, cloud-native infrastructure, DevOps automation, and complex system optimization, I focus on building secure, resilient, and production-ready platforms that solve real-world, mission-critical problems.

Recognized for strong analytical thinking, disciplined execution, and the ability to take complete technical ownership of high-impact systems.

PROFESSIONAL EXPERIENCE

Tech Lead

SpeedPhoto

09/2025 – Present
Sweden

Responsible for end-to-end ownership of software systems including:

- Gathering and translating business requirements into scalable architecture
- Designing backend services and APIs
- Migrating and refactoring legacy systems into modern, maintainable structures
- Building AI-powered workflows and automation
- Deploying and managing infrastructure on AWS (containerized microservices, CI/CD pipelines)
- Debugging complex production issues and optimizing performance

I combine software engineering, cloud architecture, and AI integration to deliver resilient, scalable, and production-ready systems.

Contract AWS Engineer

U-Blox

06/2025 – Present
Switzerland

Responsible for end-to-end ownership of software systems including:

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- Building AI-powered workflows and automation
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Tech Lead

Technetics

01/2025 – 10/2025
France

Led the modernization of a legacy desktop application into a scalable, cloud-native web platform, enhancing accessibility and performance. Architected and implemented AWS infrastructure using Terraform, enabling Infrastructure as Code (IaC) for consistent and repeatable deployments. Developed backend services with Python, integrating with AWS services such as Lambda, API Gateway, and DynamoDB to support serverless architecture. Managed CI/CD pipelines using AWS CodePipeline and CodeBuild, automating testing and deployment processes to ensure rapid and reliable releases. Implemented secure authentication and authorization mechanisms utilizing AWS Cognito, enhancing user management and security compliance. Optimized application performance by leveraging AWS CloudFront for content delivery and S3 for static asset storage. Collaborated cross-functionally with engineering, QA, and product teams to align technical solutions with business objectives in the nuclear and industrial sealing sectors.

<p>Lead AI Engineer LinqAI Worked across AI, blockchain, backend engineering, and DevOps to design and build scalable production systems. Developed data pipelines and services for processing blockchain data, implemented AI-driven features, and engineered robust APIs and infrastructure.</p> <p>Owned architecture decisions, optimized system performance, automated deployments, and ensured reliability across environments. Contributed across the full development lifecycle – from requirements and system design to deployment and production monitoring.</p>	08/2024 – 04/2025 Remote
<p>Tech Lead Alascom Leading the development of Robotics.</p>	07/2024 – 07/2025 Remote
<p>Technical Lead Metdaan As an Engineering Manager at Metdaan, I play a pivotal role in shaping the technological landscape of the organization. My responsibilities encompass the following key areas: Architectural Vision: I am responsible for crafting the overarching architectural vision for our software systems. This involves designing robust, scalable, and efficient solutions to meet our business objectives. Task Management: I meticulously plan and allocate tasks to both frontend and backend teams, ensuring a seamless workflow and optimal resource utilization. Team Development: I am deeply committed to the growth and development of our engineering teams. I provide mentorship, support, and guidance, fostering an environment where our team members can thrive and excel. Collaboration with Business Teams: Close collaboration with our business teams is essential. I work closely with them to transform ideas and concepts into tangible software solutions that drive our company's success. Adaptability: I am responsive to the dynamic needs of the company, addressing any and all tech-related requests promptly and efficiently. My role as Engineering Manager is dedicated to ensuring that Metdaan remains at the forefront of technology, delivering innovative solutions that empower our business and contribute to our overall success.</p>	2023 – 06/2024 Hybrid
<p>Tech Lead Innovemia At Innovemia, a division of MetDaan, I hold a pivotal role as the Backend and Frontend Migration Specialist. My responsibilities encompass two crucial aspects of our platform's evolution: Backend Transformation: I lead the migration effort, shifting our backend infrastructure from PHP to Python. This transition not only enhances the performance and scalability but also lays the groundwork for future innovation. Frontend Advancement: Simultaneously, I am driving the frontend modernization initiative, transitioning to React TypeScript. In this capacity, I work alongside junior frontend developers, guiding them in adopting best practices and elevating our user interfaces. Seamless Integration: I ensure the seamless integration of the new backend and frontend technologies, guaranteeing a cohesive and efficient user experience. Mentorship: As a mentor to junior frontend developers, I am dedicated to fostering their growth and facilitating their learning journey in the rapidly evolving world of web development. My role at Innovemia is pivotal in reshaping the technical foundation of our educational platform. By migrating to Python and adopting React TypeScript, we are poised to provide an even more compelling and responsive learning environment for our users, all while nurturing the talent of our junior developers.</p>	07/2023 – 01/2024 Hybrid
<p>CTO Inferatos Leading entire technology for blockchain, crypto & nft development.</p>	10/2021 – 10/2023 Norway
<p>Senior Software Engineer Rubik Inc Leverage cloud-native technologies like AWS and GCP to expand and improve Rubik data pipeline to efficiently extract, store, analyze and retrieve large amounts of data as well as to expand the back-end part of Rubik serverless web applications. Develop scalable APIs used to run complex queries and operations efficiently on Rubik data platform. Develop various ETL processes for transforming and extracting inbound data. Develop systems for data analysis and predictive analytics. Build various systems for automated marketing via Email, SMS and other channels using 3rd party APIs. Work on integrating various automated marketing components with the core data platform. Set up monitoring systems to track errors & throughput activity of pipelines. Expand testing coverage across unit and integration testing for all systems. Set up and maintain CI/CD pipelines for all systems.</p>	10/2022 – 04/2023 Office

Imbus DE

Software Engineer

At Imbus DE, my role as a Contract Software Engineer was defined by the responsibility of taking on and successfully completing projects acquired from external clients. These projects required a blend of Python and Java expertise to deliver exceptional results. Key contributions and responsibilities included: Contract-Based Engagement: My role was contract-based, focused on efficiently delivering client projects while meeting specific requirements and deadlines. Python and Java Proficiency: I utilized my proficiency in Python and Java to tackle a variety of projects, ensuring high-quality solutions that met client expectations. Project Completion: I consistently delivered on client expectations, bringing projects to completion and achieving desired outcomes. My tenure as a Contract Software Engineer at Imbus DE was marked by my ability to adapt to diverse client requirements and deliver exceptional results, thanks to my technical skills in Python and Java.

03/2022 – 09/2022
Office

Software Engineer

Mateso

During my 6-month engagement at MATESO, now part of Netwrix, I took on the role of a Contract Software Engineer with a specific focus on backend development and automation processes within the product. My primary responsibilities included: Automation Processes: I actively worked on automating key processes within the product, streamlining operations and improving overall efficiency. My tenure at MATESO, which has since merged with Netwrix, allowed me to make meaningful contributions to their product's development and automation efforts, leveraging Python to drive results.

03/2022 – 08/2022
Remote

Tech Lead

Setplex

As the Kosovo Team Manager at Setplex, my role encompassed a wide array of responsibilities, focusing on optimizing systems, enhancing efficiency, and automating workflows. Key contributions and responsibilities included: Team Leadership: I led and collaborated closely with the Kosovo-based team, fostering a culture of collaboration and innovation. System Scaling: I played a pivotal role in scaling systems to accommodate growth, ensuring they met evolving demands seamlessly. Workflow Automation: My team and I developed tools and automation solutions to streamline workflows, boosting productivity and reducing manual intervention. Self-Hosting: I managed and maintained self-hosted infrastructure, guaranteeing the reliability and performance of our systems. Network Maintenance: I oversaw network maintenance tasks, ensuring the smooth operation of our technical infrastructure. AI Tools and Chatbots: Leveraging AI, we created tools and chatbots that automated workflows based on events, enhancing operational efficiency. My tenure as the Kosovo Team Manager at Setplex was marked by a commitment to technical excellence and innovation, resulting in optimized systems and workflows that supported the organization's goals.

01/2015 – 03/2022
Remote

EDUCATION

Master of Data Science

Universum

2020 – 2022

Computer Science Bachelor

UBT

2017 – 2020

AWARDS

Full Merit Scholarship – Mathematics (Ranked #1 in School)

EuroSchool

Awarded a full academic bursary in recognition of achieving the highest mathematics performance in the school throughout my enrollment.

PROJECTS

Autonomous UAV Navigation System

Designed and implemented an AI-assisted UAV control system capable of real-time navigation and environmental awareness.

- Integrated GNSS positioning and sensor fusion
- Implemented real-time telemetry processing
- Built backend control and monitoring APIs
- Developed object detection pipeline for obstacle avoidance
- Optimized performance for low-latency decision making

Tech: Python, C++, Computer Vision, GNSS modules, Embedded Systems

AI-Based Image Verification System (Biometric Quality Control)

Developed an AI-powered system to validate biometric images for passport and official document compliance.

- Automated detection of lighting issues (over/under exposure)
- Face alignment and framing validation
- Eye-state and obstruction detection
- Image preprocessing and normalization pipeline
- Cloud deployment and scalable API integration

Tech: Python, OpenCV, ML models, AWS, REST APIs

Autonomous Ground Robot Monitoring Platform

Built backend and control infrastructure for robotics systems used in surveillance and data collection.

- Designed telemetry communication layer
- Implemented command & control APIs
- Developed AI-based object detection modules
- Cloud logging and monitoring stack
- Real-time status and alerting system

Tech: Python, ROS, AI/ML, Cloud Infrastructure

INTERESTS

Personal Lifestyle Hobbies – Motorcycling and mechanical systems • UAVs and robotics experimentation • Artificial Intelligence research • Fitness and performance optimization

CERTIFICATES

- Terraform
- GCP Cloud
- AWS Cloud