SUWILANJI SILWAMBA

CONTACT INFORMATION

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EXPERIENCE

Aurora OS (Russia)
Backend Developer | 📅 January 2024 – August 2024

- Developed a location-based service (LBS) for the Aurora operating system.
- Designed and implemented the database to store cell tower data and optimized the database to improve cell tower retrieval speeds.
- Handled the development operations of CI/CD by setting up automated unit tests, employing linters to ensure the code adhered to coding standards, helping to ensure clean, consistent, and error-free code.
- Documented the codebase comprehensively by detailing the main setup and functionality ensuring easy understanding of the project and facilitating contributions. Additionally, I documented the project's architecture with diagrams illustrating module interactions for enhanced clarity.
- Stack worked with: Python, Flask, Postgres, GitHub Actions, C++

Innopolis Labs (Russia, Remote)
Software Engineer | 📅 July 2024 – September 2024

- Worked on documenting and testing CheetahML - a platform for deploying and running AI models.
- Revised and optimized the platform's architecture to ensure compatibility with Kubernetes.
- Set up the environment for performance testing.
- Conducted performance testing and evaluated the system's performance based on its current architecture.
- Proposed architectural changes to enable dynamic resource allocation in a running system by redistributing resources between models, resulting in over a 12% decrease in response times.
- Stack worked with: Python, Docker, Kubernetes, Prometheus, Grafana.

NeoFlex (Russia)
Software Engineer Intern | 📅 February 2023 – July 2023

- Designed and Implemented an API for a shopping mobile application using Spring Boot resulting in sub 300 ms API response times.
- Designed the database and administered it throughout the project's lifespan resulting in optimal data retrieval and write times.
- Stack worked with: Java, Spring, Postgres.

SKILLS

Programming Languages: Java, Python, C#, SQL, JavaScript
Databases: PostgreSQL, Oracle DB
Frameworks and other tools: Spring Boot, Kafka, Redis, RabbitMQ, React JS, Flask, Fast API, Git, Rest API, Docker, Kubernetes, Junit, HTML, CSS
CI/CD: GitHub Actions
Software Engineering Processes: Agile, Scrum, Requirements Elicitation and Specification, Architecture Design, Unit Testing
Soft Skills: Team player & Leader, Good communicator, Problem solver and highly analytical

EDUCATION

Master of Science (M.S.) in Software Engineering, September 2023 – August 2025
[Innopolis University](), Innopolis, Russia
Relevant coursework: Vehicle Traffic Analysis using computer vision, Software Development processes and methodologies, Team management, Requirements Engineering, Continuous Integration and Deployment, Agile methodologies.
Worked in several group projects where was a team leader and system architect and foresaw the software development processes.

Bachelor of Science (B.S.) in Software and Administration of Information Systems, September 2019 - August 2023
[Voronezh State University](), Voronezh, Russia
Relevant coursework: Phase Direction Finder and Radio Waves Simulation, Data Structures and Algorithms.
Developed proficiency in various programming languages, including C++, C#, Java, Python, and SQL through my various coursework's and practical projects.

Grade 12 High School Certificate, 2012-2016
St Pauls Mulungushi Secondary School

Other notable achievements

Published and presented a paper at the 29th International Conference on Image Processing, Computer Vision, & Pattern Recognition (ICPV2025) (An Overview of Real-Time Computer Vision-Based Traffic Analysis Systems).