**SUWILANJI SILWAMBA**

# **Software Engineer**

## **CONTACT INFORMATION**

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**Website:** https://suwilanji.ru

## **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**](https://innopolis.university/en/), 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**](https://www.vsu.ru/english/), 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.

## **LANGUAGES**

English (Native)

Russian (C1)

## **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).

## **REFERENCES**

Available upon request.