

SUWILANJI SILWAMBA

CONTACT INFORMATION

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Software Developer

I am a highly motivated individual who is passionate about Software engineering and Web Development, I am a Master's student seeking to further my skills and knowledge in the field. I have a strong background in programming languages such as Java, C#, C++, JavaScript, SQL and Python. I have a keen eye for detail and a drive to constantly improve. My technical strengths lie in web and desktop application development, computer systems administration and database management while I also possess great non-technical strengths such as great leadership, communication, and interpersonal skills.

EXPERIENCE

Aurora OS (Russia)

Backend Developer | 🏢 January 2024 – August 2024

- Led technical decision-making for sprint planning, story grooming, task and story point assignment with the project manager and stakeholders using GitHub issues and Confluence to document processes and specifications and ensure timely delivery of tasks.
- Developed a flask API for a location-based server (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 and employing Ruff and Hadolint to ensure the code adhered to Python coding standards, helping to ensure clean, consistent, and error-free code.
- I documented the codebase comprehensively by creating Markdown files that detail 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, Docker, C++.
- Worked as a Python backend developer and a database designer for a location-based server (LBS) for the Aurora operating system.
- Handled the development operations of CI/CD and testing.

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, MySQL

Frameworks and other tools: Spring Boot, Kafka, Redis, RabbitMQ, ASP.NET, React JS, Flask, Fast API, Django, Next JS, Git, Rest API, Docker, Kubernetes, Junit, HTML, CSS

CI/CD : Jenkins, 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

Projects

Task Assistant Bot | [link to project](#)

I worked in a team of 4 to develop a task assistant application to allow users to manage their daily tasks.

I designed the applications architecture, elicited and specified the requirements, designed and implemented the applications web server and database.

With my work on the API, we were able to reduce the response time of the application by over 50% from 1-1.2 s to under 0.4 s.

Stack: Express JS, React, PostgreSQL, Git

Clip Solver | [link to project](#)

I developed a Snipping tool for windows to take screenshots and to extract text from the image in order to subsequently solve any questions or tasks that might be on the image.

Stack: C#, Express JS, Git

EDUCATION

Master of Science (M.S.) in Software Engineering, 2025

[Innopolis University](#), Innopolis, Russia

Relevant coursework: Software Development processes and methodologies, Team management, Requirements Engineering, Continuous Integration and Deployment, Agile methodologies.

Worked in several group projects where I played a team leader and foresaw the software development process.

Bachelor of Science (B.S.) in Software and Administration of Information Systems, 2019- 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.

LANGUAGES

English (Native)

Russian (C1)

REFERENCES

Available upon request.