# Prince Okumo

**SW Engineer, MSc**

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**Software Engineering | GitHub**

## QUALIFICATION SUMMARY

Passionate about Software and DevOps Engineering hoping to advance in the Engineering Industry or related. I possess an exceptional aptitude for rapid skill acquisition, demonstrating a remarkable ability to quickly grasp and assimilate new knowledge and techniques. My experience spans various domains, including software development, DevOps practices, and embedded systems, allowing me to contribute effectively to diverse projects.

## KEY SKILLS

✓ Software Development
Languages: C/C++, **C#/.NET, Python**, **Java**
Practices: Unit testing.

✓ Operating Systems
Linux Distributions: Ubuntu, Debian, CentOS
Scripting: **Bash** scripting for automation, **PowerShell**

✓ Test Automation
Tools: Robot Framework, Selenium, Cypress, Appium, Locust

✓ DevOps Practices
Cloud Platforms: **AWS**, **Azure**, Google Cloud
Infrastructure as Code: **Terraform**, helm
**CI/CD Tools,** Jenkins, **Docker**.
**Kubernetes**, Ansible, RabbitMQ,
API Development: **RESTful APIs**

Monitoring Tools: Prometheus, Grafana

✓ Networking
Protocols: TCP/IP, UDP,

✓ Version Control & Methodologies
Tools: Git, Bitbucket
Methodologies: Agile practices

✓ Frameworks
Development: Qt Framework, WPF

✓ Database Management: SQL, ProgreSQL, DynamoDB

## RELEVANT PROFESSIONAL EXPERIENCE

**DevOps Engineering -** April 2024 – November 2024
**Nroc Security Oy** Espoo, Finland
**Achievements:**

- Utilized a range of AWS tools (EC2, EKS, S3, Lambda, CloudFront, API Gateway, CloudWatch, CodeBuild, and CodePipeline) to provision and manage scalable infrastructure effectively.
- Integrated Splunk for enhanced logging and monitoring, improving visibility into system performance and operational metrics.
- Led automated infrastructure deployment initiatives, resulting in a 30% boost in scalability and a 25% improvement in security measures.
- Automated customer onboarding processes, achieving a 40% reduction in onboarding time and a 20% increase in overall efficiency.
- Centralized Docker image management using Amazon ECR, streamlining workflows and enhancing deployment consistency.
- Set up and maintained monitoring tools with Prometheus and Grafana using Helm charts, ensuring robust performance tracking and alerting capabilities.

Skills: **Kubernetes, DevOps, Amazon Web Services (AWS), Agile Methodologies, Terraform, Linux, CI/CD, Docker, python, PostgreSQL**

**Software Engineering** April 2023 – April,2024 (company was acquired)
**Aito Interactive Oy** Espoo, Finland

- Drafted comprehensive requirements and specifications, including initial test case drafts, ensuring clarity and alignment with project goals.
- Developed and optimized APIs in C/C++, serving as a reference for developers and achieving an impressive 80% reduction in runtime compared to the original Python-based implementation.
- Managed the Embedded Systems Yocto project environment, facilitating streamlined development and deployment processes.
- Debugged software to identify root causes of issues, proposing effective solutions that enhanced system stability and performance.
- Created supporting and testing tools using Python and Qt6, improving testing efficiency and accuracy for embedded systems.
- Authored detailed release notes and established release processes, ensuring clear communication of updates and changes to stakeholders.
- Conducted thorough code reviews and managed GIT administration, promoting best practices in version control and enhancing code quality across the team.

**Skills: Object-Oriented Programming (OOP): C/C++, C#, Python, Software Development, Docker, Microservices, Agile Methodologies, Jira, Bitbucket, CI/CD**

**Software Engineer in Test** Dec 2021 – April 2023
**Nokia** Espoo, Finland

- Planned and executed test cases for the latest 5G RAN features, ensuring comprehensive validation of new functionalities and performance metrics.
- Configured 5G base stations and conducted extensive testing on mmWave speed, latency, and overall cellular system performance in both field and lab environments across various mmWave frequency bands using commercial User Equipment.
- Performed deployment, regression, performance, and capacity testing prior to customer delivery of major 5G software releases, ensuring high-quality standards and reliability.
- Successfully automated critical testing processes using Python scripting and the Robot Framework, leading to significant efficiency gains and a reduction in manual workload.
- Led the migration of base station operating systems from Windows to Linux (CentOS), enhancing system performance and stability.

**Skills: Test Automation (Robot Framework) · Internet Protocol Suite (TCP/IP) · Nemo Wireless Network Solutions · Telecommunications · 5G New Radio (NR) · Python (Programming Language)**

**Quality Assurance** Oct 2017 – Jun 2022
**Sportradar** Tallinn, Estonia

- Focused on Software Quality Assurance and data log analysis.
- Monitored and reported data inconsistencies.
- Implemented a layered approach to customer engagement to ensure optimal performance of services and products.
- Established clear communication channels with customers for valuable feedback.
- Performed data entry and tracked production metrics.
- Analyzed data to monitor performance, identify trends, and adjust operations as needed.

## EDUCATION

Aalto University, master's degree, 4.11 GPA Espoo, Finland
Master's Programme in Computer, Communication, and Information Science - Communication Engineering
Major: Cloud and Network Service and Wireless communication

Tallinn University of Technology, bachelor's degree, 4.55 GPA Tallinn, Estonia.
Integrated Engineering (Electrical Equipment, Systems Design, Integrated system)

Kwame Nkrumah University of Science and Technology
Physics (Electronics) Ghana

## PROJECTS

Smart AWS Infra
GitHub Repository: Smart Aws Infra

A comprehensive project demonstrating advanced AWS infrastructure automation using Infrastructure as Code (IaC) principles. This repository showcases:

- Infrastructure Deployment: Automated provisioning of scalable and secure AWS resources using Terraform.
- CI/CD Integration: Implementation of robust pipelines in GitHub and continuous delivery tools, ArgoCD for continuous delivery and testing of cloud applications.
- Monitoring and Observability: Deployment of monitoring tools such as Prometheus and Grafana for real-time tracking of system performance.
- Best Practices: Adherence to industry standards for resource tagging, security groups, and IAM role management.

This project reflects expertise in building reliable, cost-effective, and easily maintainable cloud solutions tailored for enterprise environments. An important thing to note here is that this project bundles all the various Tools right out of the box.

GitHub Repository: Azure-Infra
A robust project highlighting automated deployment and management of Azure cloud infrastructure using Infrastructure as Code (IaC) and DevOps practices. Key features include:

- Infrastructure Automation: Leveraging Terraform for provisioning scalable Azure resources, including virtual machines, storage accounts, and networking configurations.
- Configuration Management: Automating environment configuration with tools like Ansible for consistent setups across Azure environments.
- Security and Compliance: Implementation of Azure policies, role-based access control (RBAC), and secure networking to adhere to best practices.
- This repository demonstrates proficiency in building and managing secure, scalable, and cost-efficient Azure solutions using modern cloud engineering methodologies.

## REFERENCES

Jari Sahinoja, Nokia Oy
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