

NJOKOSI JONES KAWUNJU

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Professional Summary

Senior Software Engineer with 4+ years of experience building scalable full-stack applications from ground up. Expert in **React, Next.js, Django, and Vue.js** with proven track record in **system architecture, team leadership**, and **multi-tenant SaaS platforms**. Led development of enterprise-grade carbon management solutions serving multiple organizations. Strong background in **UI/UX design, microservices architecture**, and **DevOps practices** with extensive experience in **AWS, Docker, and CI/CD pipelines**.

Technical Skills

Frontend Technologies: React.js, Next.js, Vue.js, JavaScript (ES6+), TypeScript, HTML5, CSS3, Tailwind CSS, Material-UI

Backend Technologies: Python, Django, Django REST Framework, Node.js, Java, Spring Boot, RESTful APIs, GraphQL

Databases: PostgreSQL, MySQL, SQLite, Redis, MongoDB

Cloud & DevOps: AWS (EC2, S3, RDS, Lambda), Google Cloud Platform, Docker, Kubernetes, CI/CD, GitLab, GitHub Actions

Tools & Frameworks: Git, Jira, Bitbucket, Celery, RabbitMQ, Nginx, Linux, Postman, VS Code, Eclipse

Methodologies: Agile/Scrum, Test-Driven Development (TDD), Microservices Architecture, System Design

Professional Experience

Zuno Carbon

Aug 2022 – Present

Senior Software Engineer, Full-time

Remote, Singapore

- Architected and led development of multi-tenant SaaS platform serving 20+ enterprise clients (<https://www.zunocarbon.com>), implementing data segregation and security protocols that reduced data breach risks by 95%, Certified by ISSB, AICPA SOC, ISO 14064
- Built and optimized carbon emissions calculation engine processing 10,000+ data points daily, improving calculation accuracy by 40% and reducing processing time from 30 minutes to 4 minutes
- Designed and implemented automated CDP reporting system using React.js and Django, reducing manual report generation time by 80%
- Led code review processes and mentored 3 junior developers, establishing best practices that improved code quality metrics by 60%
- Developed comprehensive test suites achieving 90%+ code coverage, reducing production bugs by 75% and improving deployment confidence

Jan 2022 – Aug 2022

Software Engineer, Full-time

Remote, Singapore

- Built automated CI/CD pipeline using Celery, RabbitMQ, and Docker, reducing deployment time by and enabling weekly releases for 3 development teams
- Engineered user management system with role-based access control (RBAC) supporting 500+ users across multiple organizations and improving security compliance
- Developed real-time task monitoring dashboard using React.js and WebSockets, providing visibility into 50+ daily integration processes
- Optimized database queries and implemented caching strategies, improving application response time by 95% and reducing server costs by 30% e.g dashboard response time from 15s to 1s

e-Government Authority (eGA)

Feb 2021 – August 2021

Software Engineer & Technical Lead, Contract

Dodoma, Tanzania

- Led cross-functional team of 8 developers to architect and build 4 government web applications, serving 100,000+ citizens
- Designed and developed web conference system (mikutano.gov.go.tz) using Jitsi Meet, Django, and React.js, supporting 50+ concurrent meetings during COVID-19 pandemic
- Built comprehensive security monitoring system for web applications, implementing threat detection algorithms that reduced security incidents by 50%
- Developed eboard.gov.go.tz - comprehensive digital board meeting platform enabling meeting scheduling, agenda setting, board pack organization, and minute-taking across all devices, streamlining governance processes for 50+ government boards

Agricom & Bravo Logistics

Aug 2021 – January 2022

Full-Stack Developer & System Architect, Internship

Dar-es-Salaam, Tanzania

- Redesigned and rebuilt company website using Next.js and modern design principles, increasing user engagement by 120% and mobile responsiveness scores to 95+
- Integrated SAP ERP system with real-time attendance tracking using Django REST Framework, automating payroll processes for 60+ employees
- Optimized system performance and resolved critical network infrastructure issues, reducing downtime and improving overall system reliability

Judiciary Statistical Dashboard System (JSDS)

May 2019 – Jul 2019

Software Engineer & Systems Analyst, Internship

Dar-es-Salaam, Tanzania

- Conducted comprehensive system analysis of judiciary platforms serving 500+ courts, identifying 15 critical improvement areas
- Implemented technical solutions that improved system uptime and reduced user-reported incidents by 60%

Key Projects & Products

Homebora - Property Management SaaS | *Django, React.js, Celery, MaterialUI*

Jan 2022 - Present

- Implemented automated rent collection, maintenance tracking, and tenant communication features, reducing property management overhead%
- Technologies: Django, Django REST Framework, React.js, PostgreSQL, Celery, Redis, AWS

Scrum Story Point Planner | *Next.js, Supabase, Real-time WebSockets*

Apr 2023 - May 2023

- Developed real-time collaborative planning tool for agile teams with live voting and estimation features, used by Zuno carbon in story planning.
- Implemented WebSocket-based real-time communication and responsive design supporting 10+ concurrent users per session

Web Security Monitoring System | *Django, Python, Shell Scripting*

Jul 2021

- Engineered comprehensive web security monitoring platform tracking SSL certificates, domain availability, and performance metrics for government websites
- Automated security assessments and report generation, reducing manual monitoring efforts

Education

VIT University

Jul 2017 – June 2021

Bachelor of Technology - Computer Science & Engineering (Information Security Specialization)

Vellore, India

Université Badji Mokhtar Annaba

Sep 2015 – Dec 2016

Certificate in French Studies, Level 1

Annaba, Algeria

Certifications & Awards

- 2022:** Winner - OceanChallenge4Africa Hackathon (300+ participants across Africa) - Garage48
- 2020:** AWS Fundamentals & Security in Google Cloud Platform Specialization - AWS, Google
- 2020:** Software Architecture & Processes, Agile Practices - University of Alberta
- 2020:** Algorithms Specialization - Stanford University
- 2019:** Database Programming with Python - University of Michigan
- 2018:** Algorithms and Data Structures - Microsoft DEV285x
- 2015:** Among top 3 students region-wide with Grade A in Advanced Mathematics Regional Mock Examinations - (Marian Boys' High School)
- 2015:** Among top 5 in class with Grade A in Advanced Mathematics - NECTA
- 2012:** Best student in Mathematics - Regional Mock Examinations (Pandahill Secondary School)

Leadership & Community

Young African Leaders Initiative (YALI)

Dec 2018 – Present

Member & Tech Mentor

Association of Tanzanian Students in Algeria (ATSA)

May 2017

Minister of Foreign Affairs

Christian Association of Tanzanian Students (CATSA)

May 2017

Secretary & Event Coordinator