

FUNSOOJE

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SUMMARY

Software engineer with 15+ years building and developing production systems, currently finishing a Ph.D. in Computer Science (ABD). Ten of those years were spent in enterprise infrastructure: asset discovery, configuration integrity, monitoring and Tier 3 escalation across estates of 2,000+ servers, including custom drift detection tooling. Also leads an operations platform that has run in production for 15 years and serves a 1,397-site organization.

TECHNICAL SKILLS

Languages C#/.NET, Python, SQL, C++, Java, R, Bash

Systems & Data Linux/Unix, Solaris, Windows Server, Docker, Git, CI/CD, GCP, PostgreSQL, MSSQL, MySQL, Redis, Pandas/NumPy

Web ASP.NET, React, Next.js, REST APIs

Enterprise Platforms BMC Remedy, ProactiveNet, Atrium Discovery (ADDM), Capacity Optimization, Patrol

Security & Operations Authentication and authorization design, OAuth2/OIDC, Auth0/SSO, role-based access control, audit logging, configuration drift detection, asset discovery (BMC ADDM), monitoring and alerting, Tier 3 escalation, ITIL

EXPERIENCE

Research Assistant, Scalable Algorithms for Data Science Lab

Aug 2021 – Present

Washington State University, Pullman, WA

- Designed and published HierGP, a hierarchical grid partitioning framework. It reduced a 289,446,156-point dataset by 97.45% within set accuracy thresholds, and beat Uber H3, S2 and GeoHash on time and memory at every size tested. Published in *ACM Transactions on Spatial Algorithms and Systems*.
- Built detection algorithms that identified 156,405 visit events in noisy GPS data from 357 participants. Architected the analysis platform behind them in React, .NET, Redis and PostgreSQL.

Project Lead, Membership and Event Operations Platform

2010 – Present

Nonprofit organization (volunteer)

- Lead a 130,000-line platform on .NET Core, PostgreSQL, Redis and Next.js, in production for 15 years, holding 109,855 member records across 1,397 branches, 226 zones and 55 districts.
- Built the event operations side: registration, accommodation allocation, token issuance and ID card batches, plus reporting at every level of the organizational tree. It has processed 245,756 registrations, including 25,561 for a single event.
- Migrated the backend from .NET Framework to .NET Core and rewrote the frontend in Next.js 15 and React 19, applying 77 EF Core migrations with no data loss or downtime. Moved authentication to Auth0 and brought authorization into the application, with role scoping across the hierarchy, time-bounded access and audit logs.

Principal Consultant

Aug 2015 – Aug 2019

Blue Turtle Technologies, Lagos, Nigeria · *Senior Systems Analyst 2015–2018, promoted to Principal Consultant 2018*

- Led design and delivery of enterprise monitoring and IT service management systems for banking and telecom clients, as primary solution consultant from requirements through go-live.
- Built configuration drift detection tooling that reported unauthorized configuration file changes on monitored hosts back to the client. The vendor platform did not cover this.
- Delivered monitoring across 2,000+ servers for MTN Nigeria. Led a 5-engineer team inside a 50+ person engagement, acted as Tier 3 escalation, and ran the quality gate on deliverables before production deployment.

Systems Analyst

Nov 2009 – Aug 2015

African Legend Indigo, Lagos, Nigeria

- Deployed and maintained asset discovery and dependency mapping (BMC ADDM), monitoring and ITSM platforms for telecom and financial clients.
- Migrated a production monitoring console from Windows to Solaris with no service interruption.

Earlier Experience

2005 – 2009

Application Developer, Resourcery PLC (2008–2009). **Solution Developer**, CompuSoft Technologies (2006–2008). **First Line Support**, LM Ericsson (2005–2006).

SELECTED PROJECTS

File Integrity Monitoring System · .NET, C#, MSSQL. Detects and logs unauthorized file changes over time. Built for a graduate computer security course, modeled on the drift detection delivered at MTN Nigeria. github.com/funsooje/FileChangesMonitoring

HierGP · Python, PostgreSQL, GEE. Reference implementation of the framework above. github.com/funsooje/HierarchicalGridPartitioning

EDUCATION AND CREDENTIALS

Ph.D., Computer Science, Washington State University · ABD, defending Fall 2026. Scalable algorithms for spatiotemporal data. Coursework includes Computer Security.

M.Ed., Educational Psychology, Washington State University, 2021 · **B.Eng., Electrical Engineering**, University of Ilorin, Nigeria, 2007

Certifications Google Cybersecurity Professional series, 2024 (four certificates). Certified in Cybersecurity (CC), ISC2, 2024 (*lapsed; reinstatement in progress*).

Awards Outstanding Graduate Teaching Assistant, WSU (2024–25). **Publications** Three peer-reviewed papers; full list at funsooje.dev.