DENNIS ATONYA

SOFTWARE ENGINEER

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Nairobi,Kenya

PROFESSIONAL PROFILE

Versatile Full Stack Software Engineer with a proven track record in designing and developing scalable applications and microservices. Proficient in building responsive user interfaces with JavaScript, React.js and developing robust backend systems using Python (Django), Node.js, and TypeScript (NestJS). Experienced in designing RESTful and GraphQL APIs, managing relational databases, and contributing clean, efficient, and production-grade code.

Passionate about continuous learning, embracing new technologies to build modern software solutions, and creating impactful software solutions that solve real-world problems.

WORK EXPERIENCE

SunCulture Kenya Limited   **January 2025-Present**

Software Engineer II

At SunCulture, I play a key role in building and maintaining scalable, high-performance software systems. My responsibilities and contributions include:

- Full Stack Development: Design, develop, and maintain applications using Node.js, TypeScript, React, NestJS, Python, FastAPI, and Django, with data handling via AWS RDS, Redis, and Kafka.
- System Optimization: Collaborate with software architects to optimize system performance and ensure scalability across services.
- Manage cloud-based deployments on AWS, Azure, and GCP, containerized using Docker, and streamline CI/CD workflows with GitHub Actions.
- Code Quality & Testing: Conduct code reviews, enforce best practices, write unit/integration tests, and ensure reliable delivery through robust pipelines.
- Cross-Functional Collaboration: Work closely with QA, DevOps, and Product teams in agile squads to deliver end-to-end features and improvements.
- Taking initiative on key projects including:
  - Notification Service – Microservice for multi-channel messaging via SMS, email, Slack, and WhatsApp and push notifications.
  - Authentication Service – OAuth2.0/OpenID based service for user authentication, roles, and permissions.
  - Cash Release App – Streamlined expense tracking and approvals for finance and field operations.
  - Customer Marketplace Platform – Enabled access to services like insurance and other value-added offerings.
  - AMT (Accounts Management Tool) – Platform for managing customer accounts, billing, and payment tracking.
- Mentorship & Team Growth: Actively mentor junior engineers and foster a collaborative, learning-focused team culture.
- Documentation & Agile Practices: Maintain detailed technical documentation and contribute to sprint planning, reviews, and daily stand-ups.

Qaribuhub Solutions LTD   **May 2024 - Present | Part Time**

Software Engineer | Contributor

I contribute to Qaribuhub by developing robust and reliable software solutions for a wide range of clients. My responsibilities include:

- Design and build scalable, secure backend services using Django and Django REST Framework
- Develop RESTful APIs for authentication, service listings, bookings, and messaging features
- Collaborate on a responsive frontend using React, JavaScript, and HTML/CSS
- Integrate geolocation and smart search features to enhance user discovery of nearby services
- Implement secure data practices including account verification, password hashing, and real-time notifications
- Participate in shaping the platform's architecture, roadmap, and deployment strategy using Agile methods
- Support the platform's mission to empower local service providers through digital visibility and access
- Tech Stack: Django, Django REST Framework, PostgreSQL, React, JavaScript, HTML/CSS, Git, Docker, AWS

Savannah Informatics Ltd   **May 2024 - January 2025**
Software Engineer

At Savannah Informatics Ltd I, significantly contribute to backend development and maintenance of Savannah core systems in the healthcare domain.

- Developed and maintained RESTful APIs using Python (Django REST framework), enhancing system performance and scalability.
- Built microservices for handling background tasks and services requiring high concurrency.
- Utilized PostgreSQL for relational database management.
- Used Git/GitLab for version control and Jira for agile project management.
- Wrote unit and integration tests using Pytest to ensure code reliability.
- Participated in software documentation and RFCs via Confluence.

Some of the Projects involved include:

- Slade360 Advantage: A comprehensive solution for MSPs, streamlining patient administration, clinical care, engagement, analytics, and revenue cycle management, with USSD workflows for simplified enrollment and eTIMS integration for seamless billing and compliance.
- Social Health Authority (SHA) Provider Portal for easier claim submission, dispatch, and reconciliation for post patient visits, replacing NHIF and currently used in healthcare insurance.

eProd-Solutions Ltd   **June 2022 - April 2024**
Software Engineer

At eProd-Solutions Ltd, I developed and maintained the eProd ERP software for mobile and desktop using Delphi and SQL, with key responsibilities including:

- Collaborating on eProd ERP system updates for software backend/frontend development.
- Managing SQL and MySQL databases supporting the ERP system.
- Testing, debugging and resolving reported bugs in programs.
- Creating and maintaining comprehensive software documentation.
- Utilizing Jira for sprint-based project management.
- Ensuring version control with Tortoise SVN for efficient collaboration.
- Network management and hardware maintenance within the company
- Engaging in Agile practices, including sprint planning and daily stand-up meetings, while developing Proof of
- Concepts and assisting in troubleshooting as a software developer trainee and technical consultant.

I was involved in various projects utilizing the Delphi programming language:

- Digital ID farmer enrollment and validation on the eProd system using MasterCard Community Pass APIs.
- Creating a Windows service for a farmer-produce traceability website.
- Worked on a language translation tool used for translating English to other languages.
- Developed an administration generator tool for generating admin levels for various countries.
- Built a survey tool for generating surveys for clients using the eProd system.
- Built a Proof of Concept desktop application for bank payments for clients in Nigeria utilizing vBank financial
- APIs.

eProd-Solutions Ltd   **Jan 2022 - April 2022**

Student Intern

During my internship, I worked with Delphi programming, software documentation, and project management tools like Jira and Trello, with responsibilities including:

- Collaborated on the development of the company's Moodle e-learning site.
- Contributed to successful software documentation on various financial APIs.
- Worked on minor Delphi projects to improve Delphi and MySQL skills

Section.io   **Feb 2021 - April 2022**
Technical Writer(Freelance)

At section.io, I wrote tech tutorials for the Section Edge Platform, collaborating with experts to meet deadlines and produce high-quality articles, with responsibilities including:

- Authored technical articles using Markdown and built tutorial projects with Python, Django Rest Framework, and React JS.
- Conducted research to create informative and engaging content.
- Contributed to the section.io article GitHub repository as an open-source contributor.

PROJECTS

- [eLima](#) ERP System – Built a full-stack ERP for farmer registration, produce collection, and payments using Python (Django REST), React JS, and PostgreSQL. Currently being used for produce collection with 1K+ farmers registered and 15K+ kg of produce processed and paid out.
- eLearning Platform – Collaborating on an online learning platform using Node.js for scalable backend development.
- RentEasy – Developing a house-hunting app with React JS and NestJS, focusing on user-friendly listings and property management.
- GraphQL Web Service – Created a secure, interactive link management tool using Django, GraphQL (graphene-django), and JWT authentication.
- Web Service – Created a Python web service with Django REST Framework and PostgreSQL, implementing OAuth2 authentication and integrating Africa's Talking SMS Gateway for secure messaging.
- Inventory Forecasting System – Designed a predictive analytics tool using XGBoost, integrated into a web app with Django REST and React for inventory management.
- University Society System – Contributed to a records management system using Python, Django REST, and React for organized data handling.

SKILLS

- Programming Languages: Python, JavaScript, TypeScript, Node.js, Delphi, NestJS
- Frontend Development: React JS, HTML, CSS, Tailwind
- API Design & Integration: REST, GraphQL
- Databases: PostgreSQL, MySQL, SQLite
- ORMs: Django ORM,Prisma
- Testing: Pytest,Unit and Integration tests
- Version Control: Git, GitLab, SVN
- Containerization & Deployment: Docker, Linux-based environments
- Tools & Methodologies: Agile, Jira, Trello, Confluence
- Soft Skills: Proactive, eager to learn, effective communicator, collaborative team member

EDUCATION

Jomo Kenyatta University of Agriculture and Technology

Bachelor of Science in Computer Technology : 2018-2022
First Class Honours
Mastered skills encompassing software development (Python, Django), cybersecurity, containerization (Docker, Kubernetes), networking, and machine learning, complemented by web development, database management, computer graphics, and project management skills.

Worked on various projects:
- Inventory Forecasting Management System using Python, Django Rest Framework, React, and a trained XGBoost model for predictive analytics in machine learning.
- People detection and tracking system using centroid-tracker and object_trackable in Python.
- Elevator Simulator using Python and Tkinter.
- Inventory Management System using Django and Docker for containerization.

QA TestLab Certification
Fundamentals of Software Testing: 2022
Gained skills in
- Web, mobile, and game application testing. Using Bug Tracking Systems (Mantis) for bug reporting and TestLink for test case creation.

REFERENCE

1. Sherman Ouko
   Microsoft, Technical Writer
   Email:oukosherman@gmail.com

2. Kevin Obote
   Data Scientist | Software Engineer
   Email: kevinobote94@gmail.com