# DENNIS ATONYA

## SOFTWARE ENGINEER

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Nairobi,Kenya

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## PROFESSIONAL PROFILE

Software Engineer with experience in various programming languages and frameworks, including Python, Django, Delphi, JavaScript, and React. Skilled in designing robust REST and GraphQL APIs and managing relational databases. Possesses a strong understanding of software development principles, thrives in team environments, and is passionate about continuous learning and adopting new technologies.

## WORK EXPERIENCE

**SunCulture  Kenya Limited**                                        **January 2025-Present**

**Software Engineer II**

At SunCulture, I significantly contribute to software development and maintenance with the following responsibilities:

- Develop and maintain applications using modern frameworks (Node.js, React, FastAPI, Django) and manage databases (AWS RDS, Redis, Kafka).
- Optimize performance and build scalable systems in collaboration with architects.
- Conduct code reviews, write tests, and manage CI/CD pipelines (GitHub Actions).
- Manage cloud-based applications (AWS, Azure, GCP) using Docker
- Collaborate with QA, DevOps, and product teams to ensure smooth project delivery and actively participate in agile squads.
- Maintain detailed technical documentation for software design, implementation, and testing processes.

**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.

- Utilizing Python, Django REST framework, and PostgreSQL for creating REST APIs and managing databases.
- Using Git/GitLab for version control and Jira for sprint-based project management.
- Developing scalable backend code, optimize systems for performance, and maintain unit tests with Pytest and Coverage.
- Collaborate with front-end developers, contribute to software documentation, and participates in RFCs using 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 by the Kenyan government for 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:

- Developed and maintained eProd ERP for mobile/desktop using Delphi and SQL.
- Managed system updates, SQL/MySQL databases, testing, and debugging.
- Created software documentation and used Jira for project management.
- Ensured version control with Tortoise SVN and participated in Agile practices.
- Worked on projects such as digital ID farmer enrollment, traceability, language translation tools, surveys, and bank payments using MasterCard Community Pass and vBank 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

- Currently collaborating on developing a rental management mobile application using Python Django and Flutter.
- Additionally, improving an ERP system for farmer registration, produce collection and farmer payment, built with Python, Django REST Framework, React JS, and PostgreSQL.
- A web service built with GraphQL and Django using the graphene-django package, allowing users to post and manage links. It uses JWT authentication for secure access and enables efficient data interaction through GraphQL queries and mutations.
- Created a Python web service with Django REST Framework, utilizing a Postgres database. Implemented OAuth2 authentication for secure access. Integrated Africa's Talking SMS Gateway for sending SMS.
- Inventory Forecasting Management System using Python, Django Rest Framework, React, and a trained XGBoost model for predictive analytics in machine learning.
- Collaborated on a data-keeping management system for a university society using Python, Django Rest Framework, and React.

## SKILLS

- Programming Languages- Python, Delphi, JavaScript
- Skilled in API design with experience in GraphQL and REST.
- Frontend Development with React JS, HTML, CSS, Tailwind
- Proficient in Object Relational Mappers and relational database schema design.
- Agile software development  methodology
- Experience with writing unit tests
- Version Control using Git/GitLab and SVN
- Project management tools-Jira and Trello
- Containerization using Docker, Kubernetes
- Experience with Linux Systems

# 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