CONTACT

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OBJECTIVE

Highly motivated Software Engineer with experience in Full-Stack software, AI and machine learning development, specializing in building scalable solutions with Python and JavaScript (React/Node.js). Proven ability in Machine Learning (CNNs, RNNs), Cloud platforms (AWS/GCP - if applicable) and DevOps principles, currently taking some certification programs in cyber security field, Am Eager to contribute to innovative projects leveraging AI/ML and modern web technologies.

EXPERIENCE

2nd August 2025 - Todate

- **Software implementer - core & Digital Banking Solutions**
  NLS tech solutions
  Supported core banking–integrated digital banking solutions, including fintech platforms such as NQUEST and KOLLECT PRO, across web, mobile, USSD, and payment channels.

  Provided production support for microservices and APIs, assisting with integrations, transaction monitoring, incident resolution and system stability.

  Participated in system configuration, UAT, go-live, and post-deployment support, collaborating with DevOps and banking operations teams to improve reliability, performance, and security.

  Applied data analysis and AI/ML fundamentals to support system monitoring, issue trend analysis, and operational optimization in regulated banking environments.

15/04/2024 - 11/2024

- **Lead Developer & System Implementer | POS System for Cafes/Restaurants (Pos/caferhumba)**
  Codverts Systems [Intern (volunteer)]
  ● Developed and maintained a robust Point of Sale (POS) system using Laravel (PHP
  framework) for cafe and restaurant operations; successfully installed the system in a
  restaurant environment in Eldoret and Nairobi.
  ● Engineered and implemented new features including order management, inventory
  tracking and customer relationship management modules.
  ● Authored clean, well-documented code, adhering to Laravel best practices and contributing to the continuous improvement of code quality through participation in code
  reviews.
  ● Played a key role in testing and debugging the Laravel application, ensuring stability and
  performance.
  ● Applied and deepened expertise in Laravel's features (routing, controllers, models, views,
  Eloquent ORM) and its broader ecosystem, including various packages and tools.
  ● Successfully integrated a new payment gateway, achieving a 15% increase in online
  order processing speed.

3rd April 2023 - 28th July 2023

- **Industrial attachment**
  SAV-IT Africa
  Gained exposure to enterprise IT infrastructure and DevOps practices, including

Linux-based servers, web hosting environments, application deployment workflows, production support, and version control using Git/GitHub, with an understanding of CI/CD pipelines.

Learned and applied cybersecurity and digital transformation practices, including secure coding, authentication and access control, system hardening, awareness of web and endpoint security risks (SQL injection, XSS), and support of web applications, ERP systems, hosting services, and security solutions in enterprise environments.

EDUCATION

09/12/2024
- **Maasai Mara University**
  Bachelor of science (computer science)
  GPA 3.9(second class upper division)

2016-2019
- **Maridadi High school**
  High school
  B-

2014
- **Kahoya Anne's Academy**
  Primary school
  B

SKILLS

- Languages: Python, Java, JavaScript, PHP, HTML, TailwindCSS, SQL,Kotlin
- Frameworks/Libraries: Laravel, Django, Flask, React.js, Node.js, TensorFlow, PyTorch, Scikit-learn, Express.js,Bootstrap
- Cloud/DevOps/Tools: Docker, Kubernetes , AWS , GitHub, Git, VS Code, MySQL, MongoDB
- AI/ML Concepts: Neural Networks, Convolutional Neural Networks (CNN), Recurrent Neural Networks (RNN), Machine Learning, Deep Learning, Feature Extraction (MFCCs)
- Methodologies: Agile, Scrum
- Soft Skills: Problem-Solving, Teamwork, Communication, Adaptability, Continuous Learning

PROJECTS

- **AI-Powered Solution for Climate Change in Agriculture & Food Security Kenya Inter-University Hackathon (2324**
  ● Developed and presented an innovative AI-powered solution to address challenges of
  climate change in agriculture and enhance food security.
  ● Led team to First Place victory at the hackathon due to the solution's innovative approach
  and potential impact.
  ● Key Technologies: [Python, TensorFlow, Scikit-learn, Flask]
- **Breast Cancer Detection System (Final Year Project)**
  ● Developed a machine learning system for the early detection of breast cancer using
  [mammographic image analysis or histopathological image
  analysis].
  ● Focused on [implementing a Convolutional
  Neural Network (CNN) achieving 89% accuracy on a dataset, 99% accuracy on trained data and I also used SCD
  processing techniques to compare the data].
  ● Key Technologies: [Python, TensorFlow, Keras, OpenCV, Scikit-learn]
  ● GitHub: [https://github.com/Xnelliek/BCDS]
- **Speech Detection System (Personal Project - In Development)**
  ● Currently developing a system [basic speech-to-text], exploring techniques in audio processing and machine learning.
  ● Focusing on [Mel-frequency cepstral
  coefficients (MFCCs) for feature extraction, and Recurrent Neural Networks (RNNs) for

classification].
● Key Technologies: [Python, Librosa, PyTorch/TensorFlow, NumPy]
● GitHub: [https://github.com/Xnelliek/SDS1]
- **Web Development Portfolio**
● **datamorphicslabs.com**: Designed, developed, and deployed a professional website for
DataMorphics Labs, showcasing their services and projects.
○ Key Technologies: [HTML, CSS, JavaScript, React, Node.js, MongoDB] | Link: datamorphicslabs.com
● **nyathirumotel.co.ke**: Created and launched a responsive website for Nyathiru Motel to
enhance online visibility, featuring room booking inquiries and service showcases.
○ Key Technologies: [PHP, Laravel, MySQL, Bootstrap] | Link: nyathirumotel.co.ke
● **savita.com** (Industrial Attachment at SavIt Africa Limited): Contributed significantly to the front-end and back-end development of the official company website
during an industrial attachment.
○ Key Technologies: [WordPress, PHP, JavaScript, CSS] | Link: savita.com

ACHIEVEMENTS & AWARDS

- Developed and presented an AI-powered solution for Climate Change in Agriculture and Food Security at the 2024 Kenya Inter-University Hackathon. My team was awarded first place for our innovative approach. We were awarded phones and a cup for the school. Pictures are posted on my instagram account

INTERESTS

- Watching Tech talks, Documentaries and Sci-fi movies.
- Swimming and fitness activities
- Playing vedio games

LANGUAGES

- English Swahili Spanish
- Read: English and Spanish Write: English and Swahili

PERSONAL DETAILS

- Nationality : Kenyan
- Github   : https://github.com/Xnelliek

REFERENCE

- **Gilbert Kiarie - NLS tech solutions**
  Senior DevOps/implementation Engineer
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- **DR.Ope Justus. - Maasai Mara University, P.O BOX 861-20500, Narok-Kenya**
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