NAUME KIZZA

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FULL STACK DEVELOPER

PROFESSIONAL SUMMARY

Innovative Full Stack Engineer with 6+ years of experience building scalable, high-performance web applications using **React, Next.js, Python (FastAPI, Flask, Django) and Node.js**. Proven record designing real-time, data-driven systems in AWS,GCP cloud environments. Adept at implementing microservices, RESTful APIs, and CI/CD automation, optimizing web vitals and backend performance. Experienced in collaborating with cross-functional teams and leveraging AI-assisted tools like Cursor and GitHub Copilot to enhance development speed and quality. Passionate about crafting solutions that power data-rich, fast-moving industries such as sports tech, fintech, and workflow automation.

CORE SKILLS

Languages: Python, JavaScript, PHP
Web: HTML, HTML5, CSS, CSS3, React JS, Next JS, Redux, Tailwind CSS
Web Services: REST, SOAP, GraphQL,Websockets, RabbitMQ, OAuth2/JWT, webhooks, RESTful JSON APIs, Elastic search API
Web/App Servers: Apache, Tomcat, Ngnix, Node.js
Frameworks: Fast API, Flask, Django, NodeJS, Express, Kotlin, Next JS , Spring Boot, React Native
Databases: MySQL, PostgreSQL, MongoDB
Design Patterns: Singleton, Decorator, Command, State, Adapter, Factory Method, Decorator **SDLC**: Agile (Scrum), Waterfall
Cloud & DevOps: AWS (Lambda, EC2, CloudFront, RDS, DynamoDB, S3, Api Gateway), Terraform, AWS CDK, Docker, Kubernetes, CI/CD (GitHub Actions, Jenkins), Supabase
AI & Tools: GitHub Copilot, Cursor, OpenAI APIs
Tools: Git, Docker, Trello, Slack, Github, Pivotal Tracker, Mongo Atlas
Platforms: MacOS, Windows, Linux, AWS, Heroku
Application/Software: Zendesk, Salesforce, Apache Web Server, GNU, zoom, JIRA

CAREER NOTE: *Completed on-campus studies and currently taking distance education courses to complete a* ***Master's Degree in Computer Science*** *(Available for full-time, W-2 employment).*

PROFESSIONAL EXPERIENCE

THRIVETEC LIMITED – Full-Stack Software developer
Kampala, Uganda · **08/2020 – 07/2024**

Senior Software Engineer — Parking Management Information System (PMIS)
Thrivetec / Kampala Capital City Authority Project

- Led the modernization of PMIS architecture using **Python (FastAPI), PostgreSQL, and React**, improving system responsiveness and stability by **25%**.
- Architected an automated communication pipeline using **Celery + Cron + SMS/Email gateways**, improving notification reliability and reducing missed payments.
- Introduced user-centric workflows through redesigned **React-based interfaces**, increasing adoption and operational efficiency by **27%**.
- Implemented an **AI-based parking compliance scheduler** using Python, preventing unauthorized session misuse and ensuring enforcement rules were consistently applied.
- **Developed analytical and financial reporting modules** with optimized SQL queries and Redis caching, enabling faster revenue tracking and operational decision-making.
- Engineered **real-time dashboards and analytics tools** using **React.js, Next.js, and WebSockets**, enabling live monitoring of user and transaction data improved responsiveness by **40%**.

Lead Full-Stack Engineer — Print Workflow Management System (PWMS)

- **Spearheaded end-to-end architecture and development** of PWMS using **React, FastAPI**, and microservice patterns, reducing project turnaround time by **30%**.
- **Automated key CRM workflows** (quotations, orders, invoicing), eliminating manual work and decreasing processing overhead by **70%**.
- **Implemented secure authentication and RBAC access control** with JWT to safeguard sensitive client and financial data.
- **Optimized deployments and cloud infrastructure** using **AWS EC2, S3, Lambda, and Terraform**, achieving **99.9% uptime** in production.
- **Mentored junior developers** on system design, code quality, CI/CD pipelines, and cloud networking, improving team performance and delivery consistency.
- Integrated **AI-powered development tools (Cursor & GitHub Copilot)** to streamline debugging and documentation.

Technologies Used*:* Python(FlaskApI), ReactJS, Next.js, TypeScript, AWS (Lambda, API Gateway, S3, RDS, DynamoDB, VPC, CDK), GCP (Cloud Run, BigQuery), Terraform, Jenkins, Docker, PostgreSQL

SuperCom Technologies Limited — Senior Full-Stack Developer
Kampala, Uganda ·**03/2021 – 07/2022**

- Designed and built **Oiko Express**, a global **eCommerce platform** using **React.js, Next.js, and Flask**, enabling **real-time product updates** and improving conversion by **25%**.
- Implemented **modular, event-driven microservices** using **AWS Lambda, SNS, and SQS**, ensuring fast, reliable backend operations.
- Integrated **Supabase** for secure data storage and real-time updates, enhancing performance and developer velocity.
- Deployed **containerized environments** using **Docker** and automated CI/CD with **GitHub Actions**, reducing manual release effort by **40%**.
- Collaborated with UI/UX teams to create **high-impact, responsive interfaces** optimized for Core Web Vitals.
- Built event-driven microservices using **AWS SNS/SQS**, improving backend responsiveness and scalability.
- Enhanced system security with JWT-based authentication and cloud IAM policies.

Technologies Used: Python (Flask, FastAPI), ReactJS, Next.js, Redux, PostgreSQL, AWS (Lambda, ECS, EKS, RDS, S3, VPC, CDK, Cognito, SQS, SNS), Terraform, Docker, Jenkins, REST APIs

Andela Uganda — Software Engineer
Kampala, Uganda · **11/2018 – 12/2019**

- Developed **HealthID**, a healthcare management system using **Django REST Framework** and **React.js**, improving data accuracy by **30%**.
- Enhanced **user engagement** through intuitive dashboards, modern design, and smooth API integration.
- Automated deployment pipelines via **Docker** and **GitLab CI/CD**, achieving **zero-downtime releases**.
- Worked in **Agile sprints**, participating in architecture discussions, testing, and mentoring junior engineers.
- Developed backend modules in **Python(Django)** for authentication, reporting, and microservices integration, improving service response time by 20%.
- Built and maintained **microservices** in **Flask and Node.js**, deployed on **AWS Lambda & GCP Cloud Run**, achieving **99.9% uptime** and seamless scalability.
- Designed **secure, high-performance APIs** using **Express and Django REST Framework**, integrating them with front-end applications for frictionless user experience.

Technologies Used: *Django (DRF), Flask, ReactJS, NodeJS, PostgreSQL, AWS (Lambda, EC2, S3, VPC), GCP (Cloud Functions, Pub/Sub), Docker, Jenkins, Agile (Scrum)*

PERSONAL PROJECTS

Cloud Deployment Project – Scalable AWS Web Application (Academic Project)
Maharishi International University · 2025

Architected and deployed a scalable full-stack application using **Java (Spring Boot)** and **Python (Flask)** for backend microservices, with **ReactJS** powering the frontend interface.Implemented secure RESTful APIs and enforced role-based access control using **Spring Security** and **AWS Cognito**, ensuring compliance with cloud security best practices.Configured **AWS EC2, S3, RDS, VPC, and CloudFront** for optimized performance, data persistence, and global content delivery.Established monitoring, logging, and audit tracking using **AWS CloudWatch** and **CloudTrail**, enhancing platform observability and reliability.

Machine Learning Data Pipeline (2024)
Created a cross-cloud ETL pipeline using Python (Pandas, Scikit-learn) for feature extraction and model evaluation. Deployed on AWS Lambda and GCP Cloud Run for real-time analytics.

Predictive Analytics for PMIS (2023)
Developed an ML model to predict parking demand patterns using Scikit-learn and BigQuery datasets, improving enforcement accuracy by 18%.

NomaCakes App (2023)
Developed a mobile + web platform using Django, React, and Kotlin, enabling users to order, customize, and track cakes with integrated payments and Firebase notifications.

Product Review & Rating Platform (2025)
Built a full-stack product review platform using React, Node.js, Express, and AWS. Implemented secure authentication, star ratings, and AI-driven sentiment scoring for reviews.

EDUCATION

Master of Science in Computer Science
(In progress via distance education; expected completion 06/2027)
Maharishi International University, Fairfield, Iowa

Key Courses: Algorithms, Cloud computing, Web Application Programming, Enterprise Architecture

Bachelor of Science in Computer Science in Software Developemt
Nkumba University, Entebbe, Uganda (09/2018)