Collins Githiari

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EDUCATION

University of Nairobi   **Nairobi, KE**
MSC in Computational Intelligence   *Graduation Date: September 2021*
- Machine learning algorithms: supervised, unsupervised and metalearning algorithms.
- Intelligent Systems modelling and programming.
- Analytics and Business Intelligence.
- Research Methodology.
- Project Management.

University of Nairobi   **Nairobi, KE**
BSC in Computer Science   *Graduation Date: December 2018*
- Awards: Second Class Honors (Upper Division)

Nairobi School   **Nairobi, KE**
Kenya Certificate of Secondary Education   *Graduation Date: March 2014*
- Awards: Mean Grade A

WORK EXPERIENCE

Shop and Deliver Limited (Betika)   **Nairobi, KE**
Full Stack Software Engineer   *November 2018 - Present*
- Integrated Casino games to the platform using Python Flask and optimised for high efficiency to handle the high traffic and replicated this across 3 infrastructures for different countries.
- Integrated 7+ payment gateways across 5 different countries mostly using Python Flask.
- Split two legacy systems into easily manageable microservices running on Docker containers and hosted on Kubernetes.
- Collaborated on a notifications app built using NodeJS and express template that was used by all our 5+ channels to send outgoing notifications to customers.
- Created unit tests and coverage tests using Python's Pytest package to ensure proper functioning code.
- Gained valuable experience with Google Cloud Computing features when managing projects and deploying new ones such as server setups, firewall rules setup and instance monitoring.
- Integrate and work with the backend team where needed and as directed by my supervisors.

Mesozi Inc   **Nairobi, KE**
Backend Software Developer   *May 2017 - June 2018*
- Managed and upgraded the company's lead project MarketForceTM running on Django Rest Framework, including adding demo account functionality.
- Built a proprietary project for a client that was an employee engagement platform built on Python DRF.
- Worked on the user interface for one of the projects using VueJS.
- Learnt new languages and frameworks and worked on features for the company's in house projects.

Nakuru Bookpoint Centre   **Nairobi, KE**
IT Staff   *January 2014 - September 2015*
- Created and prepared invoices to schools orders' for Instructional Material.
- Delivered consignments to schools of their orders for Instructional Material.
- Served as the IT staff for the company.
- Made sales to walk-in customers.
- Managed the company's database.

SKILLS & INTERESTS

Skills:

- Computer programming with keen adherence to data structures, design thinking and coding conventions.
- Mastery of the languages: Python, PHP, HTML, C, C++ and JavaScript. With sufficient skills in Android.
- Proficiency in working with: Django, Django-Rest Framework, Flask, Flask-restful, Express JS, Angular, Vue and Laravel.
- Integration with Rest APIs.
- Microservices – their design, structure and working.
- Database interaction with SQL, NoSQL and MsSQL and with database servers such as: MySQL, Postgres, MS SQL, SQLite and Oracle.
- Application of various machine learning algorithms and principles and their implementation in projects.
- Containerization using Docker and deployment of the containers using Kubernetes.
- Working knowledge and experience in Financial APIs, their structures and integrations.
- Mastery of the full Microsoft Office.

Interests: Artificial Intelligence, Machine Learning, Reading books, Tennis, Hiking.

PERSONAL PROJECTS

- 2 Year Project on Automating Filing of Tax Returns created using Php, Html and CSS.
- 4 Year Project on Providing Business Intelligence to SMEs using Big Data Analytics, created using Python, JavaScript and Apache Spark.
- Masters project on Application of Metalearning to Detect Financial Statements Fraud in Organisations.

CERTIFICATIONS

- Business Intelligence Analyst Course 2020