**MY CV LETTER**

**Charles Irungu Gatitu**

Address: 57, Nairobi, Kenya

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GitHub: [<https://github.com/elsangra>]

Date of Birth: 29th July 2005

Nationality: Kenyan

Religion: Christian

**Career Profile**

Proficient Artificial Intelligence, Blockchain, and DevOps engineer with extensive experience in software development, web development, and infrastructure automation. I have successfully led teams, conducted workshops, and developed applications using various programming languages and technologies. Committed to continuous learning and optimizing development and operational workflows, I aim to leverage my skills to work on innovative projects and enhance software delivery processes.

**Skills**

*Technical Skills*

- Programming Languages: Python, R, JavaScript, C++, Solidity, Go, Shell Scripting

- Web Development: HTML, CSS, JavaScript, React, Angular, Node.js

- Artificial Intelligence & Machine Learning: TensorFlow, PyTorch, Scikit-learn, Keras, MXNet

- Database Management: MySQL, Firebase, MongoDB

- Game Development: Unity, Unreal Engine, OpenGL, DirectX

- Block chain Development: Ethereum, Sui, ICP, Hyperledger Fabric, Web3.js, Truffle

- DevOps & Cloud Engineering: Docker, Kubernetes, Jenkins, Terraform, Ansible, AWS, Azure

- Operating Systems: Windows, Linux, macOS

- Tools & Technologies: Git, GitHub, Jupyter, Google Colab, Prometheus, Grafana

*Soft Skills*

- Problem-solving

- Communication

- Teamwork

- Time Management

- Leadership: (Class president since the first semester in 2022 and a leader at Umma Tech Hub)

**Education**

Bachelor of Science in Computer Science

Umma University

2022 - 2026 (ongoing)

Secondary Education

Njumbi High School, Muranga

2018 - 2021: K.C.S.E - Mean Grade B

Primary Education

Gathinja Primary School

2014 - 2017: K.C.P.E - Mean Grade B (335 Marks)

**Work Experience**

AI/ML & DevOps Lead

Umma University of Technology, Kajiado

September 2023 - Present

- Led a team of students in developing AI/ML models and web-based applications, addressing technical challenges as they arose.

- Conducted workshops and taught courses in AI, Machine Learning, Web Development, Game Development, Blockchain, and DevOps (AI/ML Coding Nights on Wednesdays and Thursdays).

- Utilized Python, TensorFlow, and PyTorch for AI/ML development and employed React and Node.js for web development.

- Implemented CI/CD pipelines and agile methodologies to streamline development and ensure timely project milestones.

*Achievements*

- Developed an AI-powered recommendation system using TensorFlow and Flask.

- Conducted successful workshops on AI, ML, and DevOps, significantly enhancing student skills and engagement.

**Technical Official**

Various Events (Nairobi City Run, Sirikwa Classic, Africa Senior Athletics Championships 2024)

- Managed equipment, oversaw event logistics, and provided technical support.

- Assisted athletes with technical needs and ensured compliance with regulations.

*Achievement*s

- Recognized for handling high-pressure situations and delivering results consistently.

**Projects**

- E-commerce Platform (Crafted Sole): Built a fully functional e-commerce website using React, Node.js, and MongoDB. Integrated a payment gateway and deployed it using CI/CD pipelines.

- Decentralized Subscription Manager: A project developed on the SUI blockchain platform, designed to offer a decentralized approach to subscription management.

- Elimisha Trust Fund (Umma University) – Front-End & Back-End Designer: Designed and developed the front and back end of a mobile application using Flutter. Responsible for the complete UI/UX design and implementation, as well as backend integration.

- Shamba Kikwetu (Umma University) – Front-End & Back-End Designer: Contributed to both the front-end and back-end design and development of a block chain project. This was a collaborative effort during a hackathon organized by the ICP organization, where I worked as part of a group of four.

- Real Football (Under Development): Currently developing a 3D football game using Unity and C#. The game features AI-driven NPCs and procedurally generated environments. Implemented CI/CD using Jenkins for automated testing and deployment.

- Property AI (Under Development): Building an AI-based platform to predict real estate prices and trends. The app will provide users with insights based on historical data and machine learning models. Developed using Python, TensorFlow, and Figma for design.

**Certifications**

- Artificial Intelligence Engineering

- Machine Learning Specialist

- Full Stack Developer (HTML, CSS, JavaScript, React, Python, Django)

- Blockchain Developer

- Certified DevOps Engineer (Docker, Kubernetes, Jenkins, AWS)

**Awards**

- Top in Class for AI and Machine Learning Project

- Best Game Development Project in Class

**Hobbies**

1. Coding personal projects (primarily Block chain engineering)

2. Cybersecurity Challenges (CTF competitions and exercises)

3. Participating in Kaggle competitions (AI/ML challenges)

4. Playing and watching football

5. Hiking and traveling

6. Playing video games

7. Gymnastics (I am an athlete with various skills)

**Referees**

1. Mr. Shaban Bakari

Chair of Department (School of Information Technology), Umma University

Email: sbakari@umma.ac.ke

2. Dr. Yusuf Muchelule

Chairperson, Umma Tech-Hub, Umma University

Email: mucheluley@gmail.com

3. Mr. Alianda

Umma University

Email: alianda@umma.ac.ke

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