

## Hussein Yussuf Garane

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## Professional Summary

Driven software engineer with experience building scalable, user-focused financial platforms. Proficient in Python and full-stack development, with a proven track record of integrating APIs, optimizing databases, and developing secure, robust systems. Passionate about delivering reliable technology that fosters financial inclusion and supports Wave's mission to make Africa the first cashless continent. Known for leadership in guiding cross-functional teams and consistently delivering high-impact solutions.

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## Key Skills

- **Programming:** Python, JavaScript (ES6+), Kotlin, Swift
  - **Frontend Development:** TypeScript, React.js, Tailwind CSS
  - **Backend Development:** Flask, Django, GraphQL APIs
  - **Database Management:** PostgreSQL, MySQL
  - **DevOps & Infrastructure:** GCP, Kubernetes, Terraform, Docker, CI/CD pipelines
  - **Key Areas:** Payment System Integration, Reliability Engineering, Scalable System Design, API Integration
  - **Tools:** Git, Unit Testing (Jest, Mocha), Debugging
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## Professional Experience

### Software Developer

ALX - Kenya, Nairobi | May 2023 – September 2024

- Built and optimized **Postgres schemas** for analytics, enabling **data-driven decisions** by Product Managers.
  - Enhanced **reliability systems**, achieving a **40% improvement** in system uptime through automated testing and monitoring.
  - Designed secure **APIs for real-time payment transactions**, ensuring **robust reliability** and **zero downtime**.
  - Collaborated with **cross-functional teams** to deliver features supporting **10,000+ daily users**.
  - Implemented **security measures** aligned with OWASP standards, achieving **zero reported vulnerabilities**.
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## Projects

## HomeMade – Connecting Consumers with Home Chefs

- Designed a **scalable platform** for proximity-based chef matching and **secure payment processing** using **M-Pesa** and **PayPal**.
- **Reduced backend response times by 25%** through query optimization and system design improvements.
- Drove **platform adoption to 1,500+ users** within 3 months by delivering **seamless user experiences**.

## Mpesa Bill Payment Integration

- Engineered **backend features** for integrating utility bill payments with **Python**, **GraphQL APIs**, and **PostgreSQL**.
- Developed **reliability tools** to detect partner outages and ensure uninterrupted service.
- Designed **system toggles** for managing features dynamically, enhancing user experience during outages.

## Airbnb-like Platform

- Built a **scalable web application** using **Flask**, **React.js**, and **MySQL**, supporting **500+ concurrent users**.
- Implemented **caching strategies** and **secure authentication systems** for optimized performance.

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## Education

### Bachelor of Science in Computer Science

Kenya Methodist University, Nairobi | *Expected Graduation: August 2025*

### ALX Software Engineering Program

Certified Software Engineer | *Graduated: September 2024*

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## Additional Highlights

- **Deployed reliable systems on GCP using Kubernetes and Terraform.**
  - Passionate about creating **financial tools** to solve **access challenges** in underserved regions.
  - Recognized for **leadership** in **HomeMade**, delivering a high-impact product in a fast-paced environment.
  - Adept at **collaborating across teams**, **communicating effectively**, and delivering **scalable solutions**.
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## **Additional Skills**

- **Leadership & Collaboration:** Proven ability to lead and collaborate within teams, ensuring high performance and successful execution.
- **Communication:** Strong written and verbal skills, adept at presenting complex ideas to diverse teams and stakeholders.
- **Problem-Solving:** Strong troubleshooting abilities, identifying root causes and delivering optimal solutions under pressure.