

# ERNEST THUKU MACHARIA

## Full-stack Software Developer

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## Professional Summary

Fullstack Software Developer with 5+ years of experience delivering scalable web applications in both startup and enterprise settings. Proficient in React.js, Vue.js, Django, Laravel, and Node.js. Experienced in microservices, API security (JWT), containerization (Docker), and CI/CD automation. Strong advocate of clean code, team mentorship, and Agile delivery. Proven track record of leading development teams and building high-impact software solutions.

## Technical Skills

**Frontend:** React.js, Vue.js, JavaScript (ES6+), TypeScript, HTML5, CSS3, Bootstrap, Sass, Next.js

**Backend:** Python (Django, Flask), PHP (Laravel), Node.js

**Mobile:** React Native, Android

**Database:** PostgreSQL, MySQL, MongoDB, Firebase

**DevOps:** Git, GitHub, Bitbucket, CircleCI, TravisCI, Webpack, Babel, AWS

**Testing:** Unit Testing, Integration Testing, Mocha, Jasmine

**Tools:** ESLint, Prettier, Postman, Docker, Figma

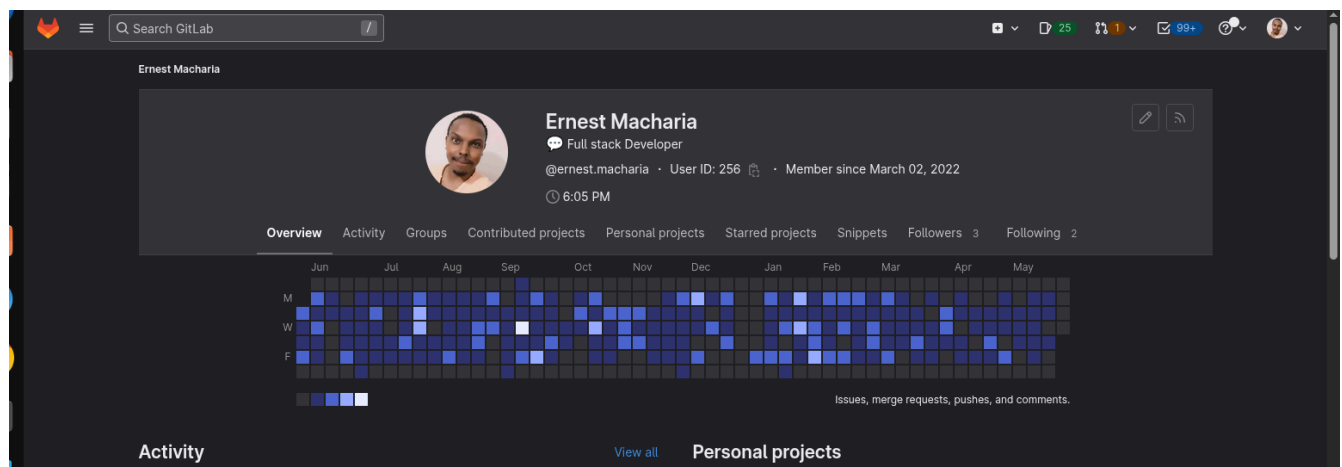
## Professional Experience

### Senior Fullstack Developer

**BPOSeats (HQZen.com)** — Feb 2022 – Present | Philippines

- Led a full stack team to deliver core features of the HQZen platform using **Python (Django)**, **Vue.js**, which attracted over 200 clients using it on a daily basis to run their daily internal organization functions.
- Reviewed and approved merge requests to ensure high code quality and maintainability.
- Mentored junior developers and interns, providing guidance on best practices and architecture.
- Architected and optimized REST APIs for scalable integrations with frontend modules.
- Participated in product planning, grooming sessions, and daily standups using Agile methodology.
- Used django and vujs forge for continuous development and maintaining code for team members.

- Designed and maintained backend services in a **microservices architecture**, enabling independent deployment and scalability for modules like contracts, payroll, and onboarding in HQZen.
- Implemented CI/CD pipelines with CircleCI for automated testing and deployment.
- Ensured cross-browser compatibility and responsive design using modern CSS and JavaScript libraries.
- Collaborated directly with UI/UX designers to bring mockups to life with pixel-perfect accuracy.
- Integrated JWT-based authentication for secure user access across microservices.
- Refactored a monolithic Django application into modular **microservices** using RESTful APIs for user management, notifications, and reporting.
- Wrote and maintained detailed **API documentation** using Swagger/OpenAPI for internal and third-party developer consumption.
- Created comprehensive API documentation using OpenAPI and Postman Collections to improve team onboarding and third-party integration.
- Used **Docker** to containerize Django and Vue.js applications, simplifying local development and deployment in QA and production environments.



## Web Developer

**Pixel Data Center** — *Jan 2021 – Dec 2022 | Kajido*

- Built and maintained React.js-based websites and dashboards with dynamic UI components.
- Integrated backend APIs using Django, Laravel and improved performance using frontend caching strategies.
- Coordinated with design and backend teams to align technical implementation with business requirements.

## Software Developer Intern

## **Quatrix Global — Jun 2020 – Dec 2020 | Nairobi**

- Assisted in backend development using Laravel and created analytical reports using SQL Server Reporting Services.
- Contributed to feature development, bug fixing, and backend refactoring initiatives.
- Conducted thorough code reviews and promoted clean coding standards.

## **Junior Software Developer Intern**

### **Kajiado County Government — May 2019 – Sep 2019 | Kajiado**

- Worked on county-wide internal tools, handling updates, feature additions, and documentation.
- Assisted in system design and collaborated with senior IT staff on infrastructure planning.
- Revamped and maintained the official Kajiado County Government website.

## **Education**

### **Bachelor of Science in Computer Technology**

Meru University of Science and Technology — 2016 – 2020

### **Certificate in Computer Packages**

Kajiado Institute of Technology

## **Key Projects**

- **HQZen.com** – A full-featured business process in Recruitment, staffing and productivity. All in one ecosystem platform using Django, Laravel, and [Vue.js](#).
- [quatrixglobal.com](#) - A solution for transporting service to clients improving the logistics industry operations by 60%.
- **GradesWorld** - A platform to sell revision papers to students. It implements payment systems like Stripe, PayPal, and M-Pesa resulting in a 40% increase in transaction success rate.
- **Student Performance prediction**. A system to predict performance of students based on key metrics and different factors.
- **Social Media Platform** – Built with Django to enable user profiles, feeds, and interactions.
- **Chatbot App** – Virtual Assistant powered by Python and basic machine learning.
- **Hospital Management System** – System to manage patients, doctors, billing, and appointments.
- **Stock Management System** – Inventory system with real-time reporting and audit trail.

## Soft Skills

- **Leadership:** Experienced in leading development teams and cross-functional coordination.
- **Communication:** Strong written and verbal communication skills.
- **Mentorship:** Passionate about helping junior developers grow.
- **Languages:** Fluent in English and Swahili.
- **Teamwork:** Enjoys collaborating in Agile environments.
- **Interests:** Soccer, public speaking, mentoring, exploring new technologies.