

## **Irvine Kwambana**

Bulawayo, Zimbabwe

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## **Summary**

Seasoned Software Engineer with extensive experience in backend development and a proven track record of building scalable, robust applications. Skilled in Python, Java, and TypeScript with expertise in frameworks such as Django, Spring Boot, ReactJS, and Node.js. Strong foundation in database management (Postgres, MongoDB) and DevOps practices, with a passion for leveraging modern tools like PyTorch for machine learning. Dedicated to creating impactful solutions while excelling in collaborative and dynamic environments.

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## **Technical Skills**

### **Programming Languages:**

- Python, Java, TypeScript

### **Frameworks & Libraries:**

- Backend: Django, Spring Boot and Node.js
- Frontend: ReactJS, TailwindCSS
- Machine Learning: PyTorch

### **Database Management & ORMs:**

- Databases: PostgreSQL, MongoDB
- ORMs: Prisma, TypeORM

### **DevOps & Tools:**

- Version Control: Git
- Containerization: Docker
- Cloud Platforms: AWS

### **Other Expertise:**

- RESTful API Development
  - Microservices Architecture
  - Agile Software Development
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## Professional Experience

### Software Engineer | LaunchWith

*Bulawayo, Zimbabwe | 2022 – Present*

- Designed and developed scalable APIs using **NestJS**, enabling seamless integration across various platforms.
  - Built dynamic and user-friendly admin panels using **ReactJS** and **TailwindCSS**, improving user experience and efficiency.
  - Spearheaded DevOps initiatives, utilizing **Docker** for containerization and **AWS** for cloud deployments.
  - Collaborated closely with cross-functional teams in Agile environments to ensure timely delivery of projects.
  - Optimized database queries and schema for **PostgreSQL** and **MongoDB**, enhancing application performance.
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## Education

### Bachelor of Science Honours in Information Technology

*Zimbabwe Open University (ZOU)*

*Class: 2.1 | Graduated: 2024*

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## Certifications

- Responsive web design: Freecodecamp (*Issued: 2021*)
  - Introduction to git and github: Google (*Issued: 2021*)
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## Projects

### Crop disease detection system (*Final year dissertation*)

- Developed a RESTful API with **Flask** and **PostgreSQL** that powers an intelligent disease detection system for crops basing on the plant disease dataset.
- Integrated **PyTorch** for image classification tasks, improving detection accuracy by 25%.

## Electronic Passport system (*Personal*)

- Built an interactive and responsive e-passport system using **ReactJS**, **Node.js**, and **MongoDB**, empowering Zimbabweans to apply for e-passports in the comfort of their homes.
  - Leveraged **Docker** for environment isolation, ensuring reliable deployment across different platforms.
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## More projects

Available upon request.

## Achievements

- Recognized as "Employee" at LaunchWith for exceeding performance expectations after serving as an intern for approximately 2 years.
  - Successfully migrated a monolithic application to microservices architecture, resulting in a 40% improvement in scalability and maintainability.
  - Mentored and still mentoring junior developers, fostering a knowledge-sharing culture within the team.
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## Interests

- Machine Learning Research
  - Open Source Contributions
  - Community Engagement in Local Tech Meetups
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## References

Available upon request.