

- Periodic pipeline ingesting NDVI data for farm parcels, storing time series in PostgreSQL, and generating vegetation/drought alerts.

Library Check-In Management System · React · Express.js · PostgreSQL

- Full-stack application for university library managing student check-ins and book borrowing records.

Open Source

- *openagri-irrigationmanagement* – Configured structured logging for the backend, improving observability.

Skills

- *Programming:* Python, JavaScript, C, Shell scripting
- *Backend /Frameworks:* FastAPI, Flask, Express.js
- *Testing:* Unit, Integration, End-to-End & Fixture-Based Testing
- *Automation & CI/CD:* Git, Docker, GitHubActions
- *Databases:* PostgreSQL, MySQL, MongoDB, Redis
- *System Administration:* Nginx, Self-Hosted Infrastructure
- *Networking:* DNS, TCP/IP, UDP

Certificates

ALX Software engineering Programme - 12 month Graduation Certificate	2023 - 2024
Kubernetes and Cloud Native Essentials (LFS250)	Apr 2025 - May 2025
Mastering REST APIs with FastAPI	December 2025

Education

Bachelors of Science in Crop production	UR-CAVM	2021-2025
General Secondary Education	GSOB Indatwa n'inkesha	2017-2019

Community Involvement

Technical Writing — Personal Blog

- Maintain a personal blog where I occasionally write and share about backend development, APIs, and software engineering concepts, breaking down technical topics and sharing practical lessons learned while building projects.

ALX Software Engineering Alumni Community

- Part of the ALX alumni network, engaged with other developers through technical discussions, peer learning, and knowledge sharing.

Open Source Contribution

- Contribute to open source projects by reviewing issues, communicating with maintainers, and submitting pull requests for bug fixes, improvements, and documentation updates.