

# Jafeth Yahuma

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## SKILLS/TOOLS

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- Django, Djangorestframework, Celery, React/Redux, PostgreSQL, Linux systems, Serverless (AWS lambda), Networking, D3, Kanban, Proto.io
  - Python, Javascript, jquery, Git, Numpy, Matplotlib, Opencv, html, css
- Mobile:** React Native, Firebase.

## EXPERIENCE

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### Software Engineer

#### UpyaTechnologies

23/01/2021 - present

- Implemented payment management system for tracking tenant transactions and internet voucher allocation using python and django for 400+ students. . This enabled client at a glance, to know rental status of rooms, money owed and by whom, plan maintenance and derive trends in occupation.
- Optimised payment backend using celery to mitigate against django's synchronus http-response cycle to free up the main thread to handle other requests while heavy requests were processed in the background. This improved response times following increased delays in payment processing at peak hours.
- Developed mobile app using react native to provide a dashboard where client could monitor real-time cash flow, generate reports on the go and receive preferred notifications without having to be at a computer. Endpoints were exposed using djangorestframework.
- Worked alongside agile development team, using kanban boards for continous improvement and incremental change. Employing domain driven designs and single responsibility paradigm with Django and postgresQL. Git for versioning and continous integration. to enforce team work and systems maintainability.
- **Skills/tools:** Python, javascript, django,SQL, react native, redux, postgresQL, docker, git, kanban, linux systems.

### Intern Full Stack Developer

#### CinematicSolutions-kenya

04/2019 - /01/2021

- Developed sales tracking system for distributors to connect with retailers for making orders and restocking warehouse using python and django. For data analytics, I employed pandas and numpy to perform aggregations, generate reports and ETL for raw data structuring before pushing to structured postgresQL.
- Spear headed mobile development in react-native where I used svg, D3 js for implementing interactive maps and charts to interface geographic data mapping polling stations and socio-economic data retrieved from firebase cloud storage. A custom map solution was required since existing provide such as google maps provided preprocessed maps with presets and unneeded features. I got to implement algorithms in javascript to calculate topojson extents and determine feature centers for precise overlay on the underlying svg map. Open source documentation on this implementation for mobile was infinitesimal and largely outdated.
- Implemented real time employee identification using python Opencv facial recognition and integrated with django backend and a react native mobile solution. This helped company restrict unauthorised access and eliminate employee queues for Id checks by utilizing already existing cctv footage. Gaurds could see on the app the Id of the entering employee
- **Skills/tools:** Python, javascript, django, react native, redux, postgresQL, docker, git, D3, numpy, linux systems, SQL.

## PROJECTS

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### Company Site

#### Cinematicsolutions-kenya

[CinematicSolutions](#)

- Designed, create and deployed and maintained a company's website using js, jquery, css,html,css, proto.io in order to boost the companies online presence and draw in more clients

#### Atomsim: The problem of the hydrogen atom

[github](#)

#### Monte Carlo Simulation of Electron Position in Hydrogen Atom

- Developed a Python algorithm to estimate electron position in a hydrogen atom using classical mechanics.

#### Blog app

[blog](#)

- A blogging platform built in Django, users are able to create accounts and post blog content.

## EDUCATION

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**Bsc. Astrophysics and Space Science:** University of Nairobi

2019 - 2024