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# Derrick Daniel Nyongesa

## Software Engineer

 (+254) 703906982

 24175 - 00100, Nairobi, Kenya

 <https://www.linkedin.com/in/derrick-nyongesa-b04267158/>

 <https://github.com/Derrick-Nyongesa>

 <https://derick-nyongesa.netlify.app/>

 [nyongesaderrick@gmail.com](mailto:nyongesaderrick@gmail.com)

## ABOUT ME

A motivated, adaptable, and responsible computing graduate with a strong systems mindset, seeking a position as a Software Developer. I have a methodical, customer-focused approach to work and a strong drive to see projects through to completion. Gained various skills both as a frontend and backend developer.

## EXPERIENCE

### **Lima Tech Data Limited, Nairobi** - *Front-End Software Engineer*

NOVEMBER 2021 - DECEMBER 2022

- Web Application development.
- Application testing.
- System integration and deployment.

### **Gebeya Talent Marketplace** - *Freelance Software Engineer*

NOVEMBER 2021 - PRESENT

- Developing new or modifying existing software applications according to my client's needs and expectations.

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- Modified existing software to detect and correct errors, improve performance, and upgrade interfaces.
  - Consulted with clients regularly regarding projects, proposals, and technical issues that arise during the development process.
  - Collaborated well with other team members to determine the best design specifications and details.

## SKILLS

- **HTML5, CSS, SASS, LESS, Bootstrap, Material UI**
- **Javascript (NodeJS, ReactJS, VueJs, JQuery, NextJS)**
- **Typescript (Angular, React)**
- **Python (Django, Flask)**
- **Ruby (Ruby on Rails)**
- **Database (PostgreSQL, MySQL, Firebase)**
- **Web Services (JSON, AJAX, RESTful)**
- **Git (GitHub, Gitlab, Bitbucket)**
- **Deployment Platforms (Heroku, Netlify, Firebase, Github Pages, AWS Amplify, Google App Engine, DigitalOcean)**
- **IDEs and Tools (Visual Studio Code, Atom, Sublime Text, Notepad++)**
- **Zapier + Airtable automations**

## Technical Skills

1. Extensive experience in developing web pages using HTML/HTML5, CSS/CSS3, SASS, LESS, JavaScript, React JS, Redux, Flex, Angular JS (1.X) JQuery, JSON, Node.js, Ajax, JQUERY and Bootstrap.
2. Experience with front-end development with back-end system integration.
3. Working knowledge of Web protocols and standards (HTTP HTML5/CSS3, Web Forms, XML, XML parsers).
4. Good experience on customizing CSS frameworks like Bootstrap and Foundation using CSS preprocessors LESS or SASS and Compass.
5. Good Experience in React.js for creating interactive UI using One-way data flow, Virtual DOM, JSX, React Native concepts.
6. Expertise in using AngularJS Directives, Controllers, Filters, Services, Templates, Events and Injectors.

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7. Experience in Node environment using Node.js, NPM, Grunt, Gulp, Groovy Bower.
  8. Experience in writing application level code to interact with APIs, RESTful Web Services using AJAX, JSON.
  9. API development - Depending on the application architecture, I can develop Restful APIs with Django. These APIs perform crucial tasks like fetching data from the server.
  10. Third-party APIs Integration i.e. Google Maps, IMDB, Twillo etc.
  11. I've implemented services with AWS deployment, RESTful APIs, SQL database models, and front-end widgets.
  12. Ability to perform Relational mapping to fetch data from the database such as PostgreSQL, SQL e.t.c.
  13. Experience in using cloud-based image and video management services like Cloudinary.
  14. Experience in using online cloud services to host my web based applications like Netlify, Heroku, GitHub Pages and GitLab Pages.
  15. Experience with Version Control tools like GIT for Source Code version management and merging Source code after intermittent Project releases.
  16. Excellent Interpersonal and communication skills, efficient time management and organization skills, ability to handle multiple tasks and work well in a team environment.
  17. Ability to set up Airtable tables with formulae, views, forms and automations in a manner that eases your workflows.
  18. I can build Zapier automations for any low-code database that supports it including Firebase, Firestore, NocoDB, Baserow, etc. If it has an API, I can work with it.
  19. Experienced in Agile Methodologies, Scrum stories and sprints experience.
  20. Quick learner and flexible to work on multiple technologies.

## PROJECTS

### eCommerce Web Application

This is a Full-Stack NextJs eCommerce Application. This application includes modern design and animations, the ability to add and edit products on the go using Sanity, all advanced cart and checkout functionalities, and the complete integration of Stripe so that it covers real payments.

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## Technologies Used

- Advanced State Management of the entire React application such as Folder and File Structure, Hooks and Refs.
- Next.js Best Practices such as file-based routing and data fetching that allows server-side rendering and static generation which makes the application optimized.
- Next.js as a backend Endpoint.
- Advanced State Management of the entire application using Zustand\_- a simpler alternative to Redux and React Context.
- Integration of OAuth to login and register users using Google.
- Managed the entire content of this application using Sanity. Sanity.io allows me to focus on developing the application without having to worry about the content, file storage and databases.
- Integrated Stripe to manage payments, products, shipping rates and the entire checkout process.

### Source Code

<https://github.com/Derrick-Nyongesa/ecommerce>

### Live Site

<https://ecommerce-brown-ten.vercel.app/>

## Vehicle Service Management

A Django application that enables customers to request mechanical service for their vehicles by providing vehicle details. A mechanic can apply for a job by providing details like (skills, address, mobile etc.). The admin then assigns the vehicle to the mechanic and sends the invoice to the user.

### User Stories

#### Customer

- A customer will signup and login into system
- A customer can make a request for service of their vehicle by providing details (vehicle number, model, problem description etc.)
- After Request approved by the admin, the customer can check the cost, status of the service.
- A customer can check the status of Request(Enquiry) that is Pending, Approved, Repairing, Repairing Done, Released.
- A customer can check invoice details or repaired vehicles.
- A customer can send feedback to the admin.

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- A customer can see/edit their profile.

### Mechanic

- A mechanic will apply for a job by providing details like (skills, address, mobile etc.)
- The admin will hire(approve) mechanic accounts based on skill.
- After account approval, the mechanic can login into the system.
- The mechanic can see how much work (vehicles to repair) is assigned to him/her.
- The mechanic can change the status of service ('Repairing', 'Repairing Done') according to work progress.
- The mechanic can see salary and how many vehicles he/she has repaired so far.

### Admin

- After login , the admin can see how many customers, mechanics, recent services and orders on the dashboard.
- The admin can see/add/update/delete customers.
- The admin can see/add/update/delete mechanics.
- The admin can approve(hire) mechanics (requested by mechanic) based on their skills.
- The admin can see/update the mechanic's salary.
- The admin can see/update/delete request/enquiry for service sent by customer.
- The admin can see feedback sent by customers.

### **Technologies Used**

- Developed the entire frontend and backend modules using Python on Django Web framework.
- Implemented PEP8 coding standards across all the entire application.
- Used PostgreSQL database for the application to store data and perform CRUD operations.
- Implemented MVC architecture in developing the web application with the help of Django framework.
- Wrote tests for the application where the app contains a test module where unit tests were defined.
- Used Cloudinary an end-to-end image- and video-management solution for websites to store images on deployment.
- Used one-step Django built-in Django-Registration for user authentication.

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\*ADMIN USERNAME and PASSWORD: vsm-admin

### Source Code

<https://github.com/Derrick-Nyongesa/vehicle-service-management>

### Live Site

<https://vehicle-service-management.vercel.app/>

## INTERESTS

- Listening to music.
- Play video games during free time.
- Watching documentaries.
- Watching sports especially Football and Formula One.

## REFEREES

Mr. Samuel Macharia

Former Senior Software Engineer at Lima Tech Data Limited and  
current Software Engineer at Carepay Limited

+254 714576184

Mr. Chris Amunga

Former Senior Software Engineer at Lima Tech Data Limited and  
current Software Engineer at Antara Health

+254 706514389

am.martin.ac@gmail.com