

# ITOK STEVE HECTOR

Software engineer (entry level)

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Yaoundé, Cameroon

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https://github.com/H3c7o4



## EXPERIENCE

### Research Engineer

OFTY

April 2022 – Ongoing

Yaoundé

- Successfully developed embedded systems using Arduino, PICs, and Raspberry Pi platforms, resulting in 6 functional and efficient prototypes.
- Utilized Python for data collection and analysis, processing more than 10 datasets to gain valuable insights for decision-making purposes.
- Demonstrated expertise in selecting electronic components and creating electrical circuits and PCBs for 3 projects, ensuring optimal performance.
- Designed and executed comprehensive test plans, validation procedures, and product characterization, leading to 4 improvements in quality and reliability.
- Collaborated with R&D to design and define 3 electrical and electronic products, meeting customer needs and enhancing product portfolio.
- Partnered with management to optimize material and product costs, achieving 5% reduction in production expenses.
- Assumed responsibility for the preventive and corrective maintenance of products, resulting in 7% decrease in downtime and improved product lifespan.
- Contributed to pricing strategies of products, working closely with management and the marketing and sales department, resulting in 3% increase in profitability.
- Authored technical notes, descriptions, and specifications, while producing accurate electrical diagrams (single line, cabinet diagram, etc.) for 3 products, facilitating clear communication and streamlining project development.
- Played a key role in the development of prototype boards and conducted rigorous environmental tests, qualifying hardware and firmware for 2 projects.
- Actively engaged in supplier meetings, ensuring compliance with applicable norms and standards, and fostering strong collaborative relationships.
- Effectively debugged prototypes and diligently reported anomalies, providing valuable feedback for enhanced product performance.

### Research engineer trainee

National Committee for Development of Technologies of Technology

Aug 2021 – Nov 2021

Yaoundé

- Developed embedded software using C/C++/Python for 2 projects, enhancing functionality and performance.

## MY LIFE PHILOSOPHY

*"Life is short, so make sure to do something meaningful."*

## MOST PROUD OF



### Selected as Learning ambassador at ALX

Due to my dedication in the cohort 9 and my good work on the PRINTF project, I have been selected as learning ambassador to help the students from cohort 17 which contains more than 3000 learners to achieve and succeed their projects.



### Participated in NVIDIA Competition for composing music using AI

I composed a beautiful song about the python programming language using AI tools. I made the lyrics using CHAT-GPT, the voice using Riffusion and the video with Pictory



### Selected for the Orange graduate Program

I was not selected in the final stage, but I had the honor of being among the last 12 participants out of the initial 600. I achieved outstanding scores in creative reasoning, surpassing 96% of participants, memory performance exceeding 84% of participants, perseverance index higher than 73% of participants, collaboration index surpassing 76% of participants, and empathy index higher than 69% of participants.

## STRENGTHS

Hard-working

Eye for detail

Motivator & Leader

Critical Thinking

grit & growth mindset

Python

C/C++

javascript

MySQL

SQL

Flask

Redis

Django & Django-rest-framework

MongoDB

Node.js

HTML/CSS & jQuery

Seaborn

Matplotlib

Pandas

Numpy

Scikit-learn

- Designed and implemented embedded systems utilizing PICs and Raspberry Pi, resulting in 3 functional and reliable prototypes.
- Conducted data analysis on 3 datasets, extracting valuable insights for informed decision-making.
- Simulated mathematical models of electrical machines using Matlab/Simulink/Proteus, optimizing performance and accuracy for 3 projects.
- Conducted an in-depth study of mathematical models of electrical machines, gaining comprehensive knowledge and expertise in 2 areas.
- Coordinated teamwork and collaborated with 4 team members, ensuring efficient project execution and achieving project milestones.
- Led prototype design for X projects, successfully translating concepts into functional prototypes.
- Conducted thorough research and analysis to identify potential partners for 2 projects, facilitating successful partnership development.
- Presented prototypes to potential partners, fostering collaborations and exploring partnership opportunities.

## PROJECTS

### UnivHat API

**A Swift, transparent and seamless evaluation flow for students.**

📅 1 Month

📍 Yaoundé

- **Story:** As someone who is passionate about education, I have always felt strongly about the state education in Africa. The inadequacies of African universities in keeping up with new technologies make it difficult for students to transition into the professional world. That's why with some friends we decided to work on this project.
- **Features:** User authentication, Create, modify or delete a course, Create a class, add courses and admit students to a class, Create an evaluation / Take an evaluation, Update or modify the profile, Reset the password.
- **Link to the github repo:** <https://github.com/H3c7o4/UnivHat>
- **Link to the medium post:** <https://medium.com/@hectorvladitok/how-i-designed-and-launched-the-university-of-hats-portal-159535c231b7>
- **Languages & tools:** Python, Django-rest-framework, MySQL, Workbench, gunicorn, NGINX, an ubuntu server, bash

### Simple Shell

**A basic command interpreter**

📅 2 weeks

📍 Remote

- **Story:** Since I always wanted to know what's happening behind the scene when I type my commands in the terminal, I decided with my friend to create a simple version of the linux shell with some basics commands.
- **Basic commands:** cat, ls, pwd, cd, whoami, chmod, chgroup...
- **Link to the github repo:** [https://github.com/H3c7o4/simple\\_shell](https://github.com/H3c7o4/simple_shell)
- **Languages & tools:** C, execve() family, fork(), ANSI C, Linux documentation

### AirBnB Clone

Puppet Datadog git NGINX HaProxy  
ufw ssh bash Regex API gunicorn  
ssl

Backend development Embedded Systems  
Statistical Analysis Data Visualization  
Data Analysis  
Machine learning

## LANGUAGES

French ● ● ● ● ●

English ● ● ● ● ●

## EDUCATION

M.Sc. in Robotics engineering

**National Higher Polytechnic School of Douala**

📅 Sept 2017 – July 2022 📍 Douala

Master's thesis: "Design and prototyping of a back-up solution to mitigate power outages for SMEs, VSEs and low income households"

A-Level in Mathematics & Physics

**Collège Bilingue la Rosière**

📅 Sept 2016 – Aug 2017 📍 Yaoundé

## CERTIFICATIONS

ALX - Software engineering courses

**Hands-on experience in developing software as well as establishing theoretical foundations. Understanding programming languages and Unix system work or what is going on under the hood.**

📅 12 Months 📍 Online

- C Programming
- Graphic Programming
- Unix Programming
- Data Structure & Algorithms
- Reverse Engineering & Security
- Python
- Backend dev
- Technical Writings
- Infrastructure Design & Management
- Linux/command line

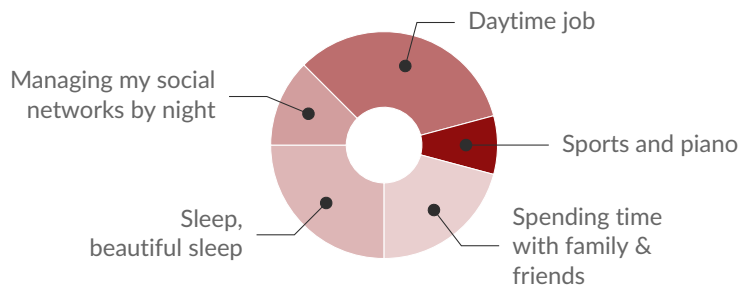
## A simple copy of the web application AirBnB

📅 6 weeks

📍 Remote

- **Story:** I worked on this project to strengthen my skills on python programming language, HTML and CSS, DOM files, MySQL, ORM and Flask.
- **Implemented features:** A simple console for the backend, JSON database, MySQL database, HTML & CSS templates, a flask app and some unittests.
- **Link to the github repo:** [https://github.com/H3c7o4/AirBnB\\_clone\\_v4](https://github.com/H3c7o4/AirBnB_clone_v4)

## A DAY OF MY LIFE



## Public Speaking for High School Students: Speak Well Now

By TJ Walker (BestSelling Personal Development & Habits Expert), Jake Senn (Author, Teacher, and Personal Development Coach) and Media Training Worldwide Digital (A Full-Service Online Training Company).

📅 Jan 2023

📍 Udemy

- Speak confidently inside and outside the classroom
- Present information clearly and in a memorable fashion
- Avoid the common blunders made by most student speakers
- Rehearse presentations effectively on video

## Deviens un Super Professional Scrum Product Owner !

By Farouk ZEMMOURI (Digital & Product Manager)

📅 Aug 2022

📍 Udemy

- Presentation of the key concepts of agility
- Presentation of the key concepts of the Scrum framework
- Presentation of the tools that a Product Owner can use in his role
- Very good introduction to becoming a Product Owner

# MEDIUM'S POSTS

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## How I designed and launched the University of HAT's Portal

### Summary of what has been done in this project

📅 Jun 2023

📍 Medium

- **Link:** <https://medium.com/@hectorvladitok/how-i-designed-and-launched-the-university-of-hats-portal-159535c231b7>
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## GROWTH MINDSET : The power of YET

### The benefits of Growth Mindset

📅 Dec 2022

📍 Medium

- **Link:** <https://medium.com/@hectorvladitok/growth-mindset-the-power-of-yet-821c9b363c6>
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## What happens when you type google.com in your browser and press Enter

### A rundown of what happens when you type "https://www.google.com" in your browser and press Enter

📅 Apr 2023

📍 Medium

- **Link:** <https://medium.com/@hectorvladitok/what-happens-when-you-type-google-com-in-your-browser-and-press-enter-7ad5d58d5682>
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## Postmortem: 30-Minute Outage Caused by Database Failure

### What happened during the outage caused by database failure and how we handled the problem

📅 May 2023

📍 Medium

- **Link:** <https://medium.com/@hectorvladitok/postmortem-30-minute-outage-caused-by-database-failure-58b2b4ef30f2>