

# Allan Vikiru

Software Engineer

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allanvikiru.github.io 

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A graduate software engineer with a career objective of solving problems by conducting informative research and applying effective solutions in Information Technology.

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## Skills

### WEB DEVELOPMENT

- HTML5, CSS3, Sass, JavaScript, PHP, MySQL, Node.js, Pug.js, Laravel, WordPress

### DATA SCIENCE

- Python, MATLAB, and Microsoft Power BI
- Techniques: Web Scraping, Data Cleaning and Preparation, Data Visualisation, Regression Modelling

### INTERNET-OF-THINGS

- Arduino, ThingSpeak And Azure IoT

### SOFTWARE ENGINEERING

- Git, GitHub, GitLab, Heroku, Microsoft Azure, Google Cloud Platform
- Techniques: DevOps, System Analysis and Design, Agile & Prototyping Models, Object Oriented Development Methodologies.

### GRAPHICS DESIGN & DEVELOPMENT

- Inkscape, Krita, Adobe Illustrator, Adobe Photoshop

### UI/UX DESIGN & DEVELOPMENT

- Adobe XD, Figma

### RESEARCH & TECHNICAL WRITING

- GitHub, LaTeX
- Techniques: Proposal Writing, System & User Documentation

### SOFT SKILLS

- Communication, Collaboration, Logical & Analytical Thinking, Creativity

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## Experience

JANUARY 2022 - PRESENT

### IoT Research Lab Intern / @iLabAfrica

- Under the software development team, handling application design as well as analytics for data collected by IoT powered devices.

MAY 2021 – NOVEMBER 2021

## **Corporate IT Systems Assistant / Quantum Facilities Management**

- Part of the IT team tasked with creating and maintaining solutions that support the firm's core business processes.
- Carried out code reviews and SEO tools for the business site that significantly improved the site's navigation experience as well as overall engagement by 70%.
- Designed and built a web application in PHP and JavaScript to handle core marketing records

JUNE 2020 – MAY 2021

## **Freelance Web Developer**

- Designed, developed, debugged, and maintained various WordPress based applications such as e-commerce platforms, blogs, and business sites.
- Implemented and reviewed custom plugins to carry out various functions on WordPress admin panel.
- Applied techniques in SEO on a project which brought about a 50% increment of site engagement

JANUARY 2020 – MARCH 2020

## **Software Developer Intern / Slash Dot Labs**

- Part of the frontend development team, tasked with designing, developing, debugging, and documenting Laravel and WordPress applications.
- Carried out code reviews and debugging to revitalise internal domain registration processes
- Served as Team Lead for a project that involved rebuilding ecommerce and retail platforms that serve 100+ customers per month; that resulted in positive end user satisfaction as well as the development team.

FEBRUARY 2019 – NOVEMBER 2019

## **Student Fellow, e-Health Unit / @iLabAfrica**

- Worked under the system testing and debugging team for a web application built in Laravel and Vue.js
- Implemented code reviews and unit testing that led to an improvement in the general application runtime.

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## **Education**

MARCH 2017 - SEPTEMBER 2021

## **BSc. Informatics and Computer Science / Strathmore University**

Award: First Class Honours

CGPA: 14.52

## Projects

### **IoT Based Firefighter Health Monitoring System**

- A system developed to assist fire service personnel in determining the chances of firefighters sustaining fireground injuries.
- Includes a wearable device prototype that incorporates Internet-of-Things technology, a cloud-based dashboard for live monitoring and a web application for generating reports and information management.

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## Workshops & Conferences

JUNE 2021 - JULY 2021

### **6<sup>th</sup> Strathmore International Mathematics Conference / Strathmore University**

Co-presented a paper: 'Detecting the Risk of Fireground Injuries using IoT'. A dissemination of the implementation of wearable sensor technology to assist firefighters in determining the risk of sustaining fireground injuries.

JUNE 2021 - JULY 2021

### **17<sup>th</sup> ICT Conference / Strathmore University**

Co-presented a paper titled 'Automated Estate Services Management System' which demonstrated a web-based system that assists residential estate management committees in their operations.

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## Achievements & Awards

OCTOBER 2021

### **Africa IoT and AI Challenge / IEEE & BENYA**

Selected among the top ten projects in the Kenyan chapter. Presented a solution that implements Internet of Things technology to assist firefighters in determining the risk of sustaining fireground injuries.

JULY 2019

### **Konica Minolta National University Contest / Express Automation**

Emerged 1<sup>st</sup> Runners Up nationally as part of a team of three; by developing a solution based on augmented reality technology, that sensitises the importance of recycling.

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## Volunteer Activities

JANUARY 2018 – FEBRUARY 2018

### **Student Volunteer / Gertrude's Children's Hospital**

Assisted patients and hospital staff in various departments such as Outpatient, Laundry & Housekeeping, Radiology and Pharmacy.