

STEPHEN GIFT MUKOYA ARAKA

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CAREER SUMMARY

Computer scientist with three years of extensive experience in software development. Designs, creates, and maintains software products for companies and to enhance business operations. Contributed as a front-end engineer in building a cloud-native tool to save locally based African developers over 40% in bandwidth usage for deploying applications. Seeking an opportunity to apply skills and expand expertise in Software and DevOps engineering while assisting companies to meet business goals and be future proof.

EDUCATION

Carnegie Mellon University – Africa, Rwanda

Master of Science in Information Technology

Department of Information and Communication Technology

Aug 2020 – expected Dec 2022

CGPA 3.35

Makerere University – Uganda

Bachelor of Science Computer Science

College of Computing and Information Science

Aug 2016 – May 2019

CGPA 3.92

WORK EXPERIENCE

Graduate Teaching Assistant – Software Architecture and Design

Jan 2022 – Present

Carnegie Mellon University, Africa – Rwanda

- Currently coordinating a class of 14 students to develop skills in designing, developing, and justifying reasonable software architecture for enterprise-scale software-intensive systems, considering both functional and non-functional requirements as well as contextual system environments.
- Organizing recitations, assignments, and discussions to accord students a smooth transition in Software Architecture and Design.

Graduate Teaching Assistant – First Year Seminar

Aug 2021 – Dec 2021

Carnegie Mellon University, Africa – Rwanda

- Assisted a class of 48 students in developing students' career skills and broadening professional horizons through exposure to a wide-ranging set of issues in ICT.

DevOps Engineer – Intern

Jun 2021 – Sep 2021

Crane Cloud – Uganda

- Analysed current containerization processes used by Crane Cloud users.
- Researched on containerization best practices drawn from industry.
- Implemented and tested initial version of a Docker containerization pipeline for over 200 users.

Software Engineer

Apr 2019 – Dec 2020

Crane Cloud – Uganda

- Designed and implemented cranecloud.io, a web platform used to manage Infrastructure-as-a Service on premise and multiple public clouds while working specifically as a leading front-end engineer.

- Optimized product for a fitting user experience and launched cranecloud.io through a webinar to accelerate adoption of cloud native solutions in Uganda and Africa at large.

Software Developer

Nov 2019 – Jan 2020

REF. Sports Limited – Uganda

- Cemented company's online presence through designing and building an e-commerce website.

Software Developer

Jan 2019 – Mar 2019

Line23 – Uganda

- Executed the implementation of a mobile application to aid team collaboration.

Developer Consultant – Intern

Jun 2018 – Sep 2018

Flock of Birds – Uganda

- Developed widgets for Mendix, a low-code software platform to build, test, deploy and iterate applications, by working with fellow interns.
- Gained hands-on experience in software development and consultancy through engaging and helping customers with questions about company products and services.
- Selected among 8 interns and retained to work as permanent staff.

TECHNICAL SKILLS

Frontend: React, Next.js, JavaScript (ES6), TypeScript, Bootstrap, HTML, CSS, Sass, UI Design (Figma).

Backend: Node.js, Express.js, Web Sockets (socket.io), MySQL, MongoDB, PostgreSQL.

DevOps: Docker, Heroku, CI/CD (CircleCI, Jenkins), Cloud Computing (AWS, GCP, Azure), Kubernetes, Terraform, Helm, Ansible, Vagrant.

Project Management & Collaboration: Version Control (Git), Jira, Trello, Pivotal Tracker, Agile Software Development (Scrum & Kanban).

PROJECTS

- Estimation of carbon emission reduction from forestry for carbon credits trading **[Jan 2022 – Present]**.
- High performance Twitter Analytics Web Service on the cloud (Terraform, Kubernetes, Helm, AWS, GCP, Azure, Microservices) **[Sep 2021 – Dec 2021]**.

HONORS AND AWARDS

- Recognized for volunteering as a Mastercard Foundation facilitator for a bootcamp to teach programming basics to students using Python (2021).
- Recipient of a full scholarship from the Mastercard Foundation for the master's program at Carnegie Mellon University Africa (2020).
- Recognized for volunteering as an organizer for the Bright Summer School at Makerere University to enhance ICT Training and Research in Uganda (2017).