# Benjamin **Arko Afrasah**

### Senior Software Engineer

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## -A- Professional Summary

High-level software engineer with innovative and well designed models in the software development arena. Committed to meeting project milestones in a timely fashion. Loves architecting codebases and code optimizations.

#### Skills

**Programming Languages** Typescript, JavaScript, NodeJs, Python, Dart, HTML, CSS, Go, Java

> Frameworks React-Native, ReactJS, Flutter, ExpressJs, Apollo GraphQL, Flask, Java Android, NextJS,

> > Django

Databases MySQL, PostgreSQL, MongoDB, Redis, Firestore, Firebase Database, Datastore

GraphQL, Rest APIs APIs

Docker, Github CI, Gitlab CI, Bash Script DevOps

**Programming Paradigms** Functional Programming, Object-oriented programming

**Cloud Technologies** Google Cloud, Linode Virtual Private Server, Vultr Virtual Private Server, Digital Ocean

Message Brokers RabbitMQ, Redis, Kafka Prototyping tools Adobe XD, Figma

Visual Studio Code, IntelliJ Idea, Pycharm, Webstorm, Eclipse Development tools **Operating Systems** macOS, Ubuntu, Windows, Deepin, Linux Mint, Elementary OS, Kali



## Professional Experience

#### July 2020 May 2020

#### Senior Software Systems Engineer, NYEOVA SYSTEMS, Parker, CO - USA

- Lead Engineer in modelling and implementing an application for online food delivery and shop management built with React-Native, ReactJS and Electron with over 200+ clients.
- Lead Engineer in modelling and implementing a contractor-based contact management system.
- > Lead mobile frontend engineer.
- > Architect and designed company's project codebases and models making it 95% easier to understand by developers and non-developers.
- > Constructed a more efficient and easy-to-understand scalable codebases with a 40% increase in produc-
- > Designed and co-ordinated with teammates in setting up company's website and product's websites.
- > Guided and supported 3 trainees in honing their skills.
- > Created the developers workflow for a more efficient work environment.
- > Architected company's servers on Linode and Google Cloud making deployment seamless with 0% human interaction.
- Provided time-saving and effective insights and feedback on company's workflows, projects and models, achieving a 56% reduction in preparation of the software.
- Converted RestAPI to super optimised GraphQL APIs with an average response time of 86ms for 27, 625 http requests by 50 virtual users all in span of 12min 30s.
- Setup company's payment gateways.

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Typescript	Javascr	ipt	MySQL	Redis	ReactJS	React-Native	NextJS	GraphQL RestAPI:	Linode VPS
Google Clou	ıd Doc	ker	Nginx	Netlify	Bash Scrip	oting Python	Teams	Visual Studio Code	SCRUM

#### June 2020 November 2020

#### Senior Full-stack Developer, JLS TRADING Co., Charlotte, NC - USA

- > Collaborated with teammates to work on an amazon-based Inventory management system which can handle over more than a million products.
- Integrated amazon advertising APIs into our systems.
- > Influenced 2 trainees to improve and get promoted to full-time working developers.
- Came up with cost efficient algorithms which saved us 96.67% of the cost on Google cloud.
- Setup company's DevOps and cloud based systems making deployment seamless with 0% human inter-

Typescript Javascript MySQL ReactJS RestAPIs Google Cloud Docker Bash Scripting Python Teams Visual Studio Code

#### October 2020 September 2019

### Backend Developer, Asqıı LLC, Ghana

- Assisted my colleague with the development and maintenance of SchoolDesk.
- **>** Developed the backend for an asset management system.
- > Implemented an examination room assignment system for KNUST with over more than 40,000 students.

Typescript | Javascript | MySQL | Slack | ReactJS | React-Native | Python | Flask | Pycharm | Visual Studio Code

#### September 2020

#### Teaching Assistant | National Service Secretariat, Kwame Nkrumah University of Science and TECHNOLOGY, Ghana

#### September 2019

- Assisted lecturers in the following courses; C programming, Classical Control Systems, Software Engineering 1 and 2, Basic Electronics.
- Marking quizzes, lab reports, assignments and preparing continuous assessment for students.
- Organised tutorial sessions to help students have a deeper understanding of the course.

Typescript | Javascript | Python | Flask | MySQL | ReactJS | React-Native | Pycharm | Visual Studio Code | Slack |

#### December 2019 March 2019

#### Freelance Full-stack Developer, MITWORKS, Ghana

> Implemented a full-stack mobile application, Votebook; A voting based mobile application.

Typescript Javascript React-Native NodeJS MySQL Visual Studio Code

#### January 2020 December 2019

#### Freelance Full-stack Developer, REMOTECH LLC, Ghana

> Developed a full-stack mobile application, Automote; An IoT based mobile application for controlling the lightening system of homes, offices and street lights.

Typescript Javascript React-Native NodeJS MySQL Visual Studio Code

#### August 2019 January 2019

### Full-stack Developer, MILLENNIUM PROMISE ALLIANCE, Ghana

- Implemented the back-end service for a software called RDLS which helped midwives to contact laboratories and send samples to request a lab test.
- Developed the mobile app for cRDLS.

Typescript | Javascript | React-Native | NodeJS | MySQL | Python | Flask | Visual Studio Code | Pycharm

#### August 2018 June 2018

#### Backend Developer | Intern, Asqui LLC, Ghana

- > Conducted maintenance and code reviews on SchoolDesk application.
- Quality Assurance testing.
- Assisted the company in marketing the SchoolDesk Application to 20 different schools.

MySQL Python Flask Pycharm

#### August 2017 June 2017

#### Backend Developer | Intern, APPATECH RESEARCH GHANA, Ghana

- > Code maintenance and debugging.
- > Worked together with my colleagues in resolving bugs and issues.

MySQL Python Django Pycharm



## **EDUCATION**

#### ▶ BSc. Computer Engineering at Kwame Nkrumah University of Science and Technology

**September 2015 – July 2019** 

# A Z | ANGUAGES

English











# + STRENGTHS

- Writing clean, high-quality, high-performance and maintainable code.
- > Continually migrate solutions to newer technologies to stay up to date with industry best practices.
- > Supporting other developers.
- Never hold back feedbacks to other co-workers on how to improve more effectively.
- > Fun and friendly to work with.
- Backend specialist.
- Agile development and Scrum practices.

# HONORS AND AWARDS

- Summa Cum Laude of Computer Engineering Class of 2019 in KNUST 2019
- Excellent and Best Student in Computer Engineering 2018
- Excellent and Best Student in Computer Engineering
- 2015 Magna Cum Laude of Class of 2015 at Kumasi High School Science 3



#### **PROJECTS**

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**PIGEONULTRA** 2020 - 2021 ● Website Playstore AppStore ▶ Playstore - Driver's version AppStore - Driver's version PigeonUltra is a mobile and online product that delivers quality e-commerce essentials from restaurants, groceries, bakeries, marketplace shops, and pet-care services in Ghana, West Africa. Typescript Javascript NodeJS ReactJS Python Bash Scripting **OMNISCIO** 2020 - 2021 **9** Website An amazon inventory management system. Typescript Javascript NodeJS ReactJS Python Bash Scripting PROJECT BLACKBOOK 2020 Playstore A contractor-based contact application for finding the right contractors for the right job. Dart Flutter Python Flask SchoolDesk 2018 - 2020 **𝚱** Website A school management software with accounting capabilities and timetable generation feature. Typescript | Javascript | React-Native | NodeJS | ReactJS | Python | Flask **IDoc** 2019 - 2020 This project is to help clients to easily access and communicate with their doctors without the need of always going to the hospital. Project currently has 150+ clients and 10 doctors. Typescript Javascript React-Native NodeJS ReactJS **V**отевоок 2019 - 2020 ➢ Playstore A generic voting based mobile application. Typescript Javascript React-Native NodeJS Аитомоте 2019 - 2020 An IoT based mobile application for controlling the lightening system of homes, offices and street lights effortlessly. This helped save 70% of the power consumed on the KNUST campus as power could be scheduled when to come on or off. Typescript Javascript React-Native NodeJS **PROJECT AQUANAUT** 2018 - 2019 github.com/aquanautpro/aquanaut-community Final Year Project, KNUST A Data Analytics Platform and sensor node for leakage detection and management in water distribution networks. Typescript Javascript NodeJS ReactJS Python Flask **ERRANDA APP** 2018 - 2019 ♦♦ gitlab.com/ACESIV/back-end/errand-boy-main-backend ♦ Software Engineering II, KNUST This project presents a system that allows users post errands they want to be run so errand guys can bid and run the errands for a fee. Typescript Javascript Python Flask React-Native ReactJS CODEFORME 2018 🕤 github.com/Silvrash/codeForMe 🛮 🔗 Artificial Intelligence Project, KNUST This project used AI to convert speech to python code. (Natural language to code platform using semantic parsing and artificial neural networks). Typescript Javascript ReactJS Python Tensorflow Flask ΒοοκΙΤ 2017 ♥ gitlab.com/facta01/BookIT **ଡ** Software Engineering Project, KNUST This project helps students to book buses to convey them to their destinations during school breaks and vacations. Java Android Python Flask **EGG COLLECTOR** 2017 😽 gitlab.com/benjin/egg-collector 🛮 🚱 Exchange Program Project, KNUST A computer vision-based project for egg detection and determining if an egg is viable or not, grouping the eggs into those which are good and the spoilt ones.

Python Arduino

MovX 2016

Python Java Android Flask

# 66 RÉFERENCES

## Jephthah Yankey

Assistant Lecturer, KNUST



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