

Delmwin Baeka

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Work Experience

Zeepay, Accra, Ghana

Technology Manager (Product Delivery), Jul 2021 – Present

Technology Specialist, Mar 2021 – Jun 2021

Technology Analyst, Feb 2021

- Spearheaded Directed Receives project with MoneyGram team to allow cash redemptions through the USSD; the first of its kind.
- Instituted continuous delivery approach that increased the average weekly integration to 3 leading to an increase in transaction volume processed.
- Maximized the performance of existing Remittance and Mobile Money platform engines, leading to 99% uptime and increased performance capable of supporting current 1million+ users

Rookery Limited (Rook+), Accra, Ghana

Chief Technology Officer | Lead Developer, Jun 2018 – Aug 2020

- Conducted weekly extensive review, and code analysis of developer team of 5, in person and remotely.

National Information Technology Agency (NITA), Accra, Ghana

IP Engineer Intern, Feb 2018 – Apr 2018

- Re-established the defunct VoIP network structure for Ghana's Ministry of Communications and NITA offices, shaving off costs completely.

Education

Shanghai Jiao Tong University, University of Michigan Joint Institute, Shanghai, China

Sept 2016 – Aug 2020

- *BSc. Electrical and Computer Engineering*
 - Awards: SJTU Outstanding Graduate 2020, Dean's List (Fall 2019), International Student Scholarship Award 2017
 - Papers (Unpublished): Multimodal Attention Human Action Recognition project, Why Artificial Intelligence Accelerators Are Needed for Machine Learning Inherent Tasks
<https://github.com/dbaeka/ProjectPapers>
- *Minor in Entrepreneurship*
- *Head Teaching Assistant, Differential Calculus*
- *Assistant for Center of Entrepreneurship*

University of Maryland, College Park, USA

Spring 2020 Exchange Term

- *Electrical and Computer Engineering, 4.0 GPA*
 - Relevant Coursework: CMSC412 Operating Systems, ENEE440 Microprocessors (ARM), CMSC436 Programming for Handheld Devices (iOS), CMSC 498O Intro to Data Visualization

Kwame Nkrumah University of Science and Tech., Kumasi, Ghana

Sep 2015 – May 2016 (Incomplete)

- *B.S. Petroleum Engineering*
 - Awards: KNUST College of Engineering Best Student Award 2016, KNUST College of Engineering Excellent Student Award 2016, KNUST College of Engineering Provost List 2016/2017

Skills

Spoken Languages

English (Native), French (Read, Write), Akan (Read, Write, Speak)

Technologies

ReactJS, Django, Flutter, Sketch, XCode, Photoshop, Illustrator, vSphere, Keras, Flask, GatsbyJS, Docker, jQuery

Languages

HTML5/CSS3 (Excellent), C/C++ (Very Good), Swift (Very Good), JavaScript (Very Good), Python (Good), PHP (Good), Verilog (Very Good), ARM Assembly (Very Good), Dart (Good)

Projects

(Personal and School Only)

Rook+ mobile app (Flutter) and homepage (ReactJS)*

Mobile and web platform that connects students with companies for virtual internship

[\(https://myrookery.com/\)](https://myrookery.com/)

- Designed, built and shipped mobile platform in Flutter to the App Store and Play Store with 800+ Beta stage student users
- Designed homepage UI and developed web management tool using React and PHP for companies (20+ companies)

Project Tides (VMware) – Elastic Platform on Idle Cloud Resources

Open-source project to donate private enterprise cloud resources

[_ \(https://github.com/dzl84/CloudTides\)](https://github.com/dzl84/CloudTides)

Project paper here:

https://bit.ly/project_tides

- Developed a tool using ReactJS frontend, Django backend and

Projects (continued)

- k8s to monitor vSphere cloud resources usage and dynamically donate resources to public volunteer computing through BOINC.
- Currently supporting development with VMware team to extend tool for Folding@Home towards finding COVID-19 solutions.

GeekOS x86 Kernel**

Tiny operating system kernel for x86 PCs running on Qemu.

- Extended operating system using assembly and C to implement forking, virtual memory, file systems, synchronization.

Tethi: Task Manager Program in ARM Assembly and C**

Custom timer-based task manager for ARM Cortex-M Processor

- Programmed the STM32L476 Discovery board to run GPIO, ADC, DAC, SPI, I2C and timer control functions in custom task manager environment.

Movie Data Visualization Tool in ReactJS**

Web-based tool for visualizing movie data with filter interaction control

Demo: <https://dbaeka.github.io>

- Built a fast rendering visualization tool for movies using ReactJS.

Repository Mining Tool for Java Code in Python**

Tool for analyzing all commits in Java repository and finding commits that have added a parameter to an existing method

- Used abstract syntax trees (ASTs) to analyze Java code and extract updated methods.
- Designed crawler in Python to concurrently run and scale up to speed up mining process on low end machines.

UMD Latency Research Website Tool (Flask)

Tool for analyzing how users respond to latency when doing visual search with panning and zooming.

[\(https://visualsearchlatency.herokuapp.com/search-study/\)](https://visualsearchlatency.herokuapp.com/search-study/)

- Designed visual tracking tool in Python which is scalable and synthesizes user interactions for latency analysis.

* *Private company repository. Demo can be shown upon request.*

** *Course requires private repository. Can be shared upon request.*