Benjamin Arko Afrasah

Website: https://benjin.netlify.app

Email : barkoafrasah@gmail.com

Mobile : +233 24 244 0125

EDUCATION

- **Kwame Nkrumah University of Science and Technology** — Kumasi, Ghana
  Bachelor of Computer Engineering; Top of my class; GPA: 3.83 — *September 2015 – July 2019*

WORK EXPERIENCE

- **JLS Trading Co.** — Charlotte, NC - USA
  Senior Software Engineer — *November 2020 – Present*
  - Led the development of an Amazon Ads integration app, processing extensive campaigns, implementing ML sales prediction, and scaling databases for over a million records.
  - Established seamless DevOps and cloud-based systems, achieving 0% human intervention in deployments.
  - Collaborated on an Amazon-based Inventory Management System, adeptly handling over a million products and seamlessly integrating with Amazon's shipping API.
  - Devised highly cost-efficient workflow algorithms that achieved an impressive 96.67% cost reduction on Google Cloud expenses.

- **Nyeova Systems** — Parker, CO - USA
  Senior Software Engineer — *May 2020 – May 2024*
  - Spearheaded the PigeonUltra project, successfully delivering an innovative online food delivery app to over 200 clients, with a strong focus on excellence and community impact.
  - Restructured project organization, leading to a remarkable 40% boost in productivity and significantly improving scalability.
  - Mentored and empowered a team of five trainees, actively contributing to their skill development and exemplifying scholarship values.
  - Orchestrated the design and implementation of a highly scalable cloud server infrastructure, streamlining deployment processes and reducing manual intervention. This initiative resulted in a notable 40% increase in system performance and an impressive 30% decrease in operational costs.
  - Provided invaluable feedback and process enhancements, resulting in a remarkable 56% reduction in software development time.

- **Asqii LLC** — Kumasi, Ashanti - Ghana
  Fullstack Developer — *September 2019 – October 2020*
  - Achieved a 40% boost in productivity by conducting workload assessments and implementing innovative operational processes for SchoolDesk, a school management platform.
  - Played a pivotal role in public marketing initiatives to promote the SchoolDesk Application.

- **Remotech LLC** — Kumasi, Ashanti - Ghana
  FullStack Software Engineer — *December 2019 – January 2020*
  - Spearheaded the implementation of Automote, an IoT-based mobile application for seamless control of lighting systems in homes, offices, and street lights. Achieved a measurable 30% reduction in energy consumption and maintenance expenses through optimized scheduling and remote monitoring capabilities.

- **MITWORKS** — Kumasi, Ashanti - Ghana
  FullStack Software Engineer — *March 2019 – December 2019*
  - Implemented a full-stack mobile application, Votebook ; A voting based mobile application.

- **Millennium Promise Alliance** — Kumasi, Ashanti - Ghana
  Senior Software Engineer — *January 2019 – August 2019*
  - Implemented the mobile and back-end service for a software called RDLS which helped midwives to contact laboratories and send samples to request a lab test.

- **Asqii LLC** — Kumasi, Ashanti - Ghana
  Backend developer — *June 2018 – August 2018*
    - Performed a multifaceted role involving maintenance, code reviews, and quality assurance testing for the SchoolDesk application. Additionally, actively contributed to marketing efforts to promote the SchoolDesk Application to a wider audience.

- **Appatech Research Ghana** — Kumasi, Ashanti - Ghana
  Backend developer — *June 2017 – August 2017*
    - Collaborated with team members to conduct comprehensive code maintenance, debugging, and issue resolution.

Teaching Experience

- **Kwame Nkrumah University of Science and Technology** — Kumasi, Ashanti - Ghana
  Teaching Assistant — *September 2019 – September 2020*
    - 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.
    - Organizing tutorial sessions to help students have a deeper understanding of the course.

Community Involvement

- Implemented exam room assignment system at KNUST for 40,000+ students, simplifying room navigation during exams.
- Initiated a developer community fostering idea exchange, collaborative projects, bug-solving, and social interaction.
- Empowered technological growth in my hometown, Anomabo-Nsanfo, through computer donations.
- Mentoring aspiring software engineers, guiding them in software development and career growth.

Honours and Awards

- Summa Cum Laude, Computer Engineering Class of 2019 — 2019
  Kwame Nkrumah University of Science and Technology

- Excellent and Best Student in Computer Engineering — 2017 - 2019
  Kwame Nkrumah University of Science and Technology

Programming Skills

- **Languages**: Typescript/Javascript(7+yrs), Python(7+yrs), Dart(1yr), SQL(7+yrs), Go(1yr), HTML(8+yrs), CSS(8+yrs), C/C++(2+yrs), Java(2+yrs), Rust(1yr)

- **Cloud Technologies**: Google Cloud(7+yrs), AWS(1yr), Linode Virtual Private Server(2yrs), Vultr Virtual Private Server(3yrs)

- **APIs**: REST APIs(7+yrs), GraphQL(7+yrs), gRPC(1yr)

- **Frameworks**: ReactJS(7+yrs), React-Native(7+yrs), Flutter(2+yrs), ExpressJS(7+yrs), Apollo Graphql(7+yrs), NextJS(3+yrs), Docker(2yrs), NestJS(2yrs), AWS(1yr), Terraform(1yr), Flask(4yrs)

- **Databases**: MySQL(7+yrs), PostgreSQL(7+yrs), MongoDB(5+yrs), Redis(5+yrs), Firestore(4yrs), Firebase Database(5yrs), Datastore(3yrs), Cockroach(2yrs), ScyllaDB(1yr), Cassandra(1yr)

Languages

- English - Fluent
- Twi - Intermediate