

# Benjamin Arko Afrasah

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## EDUCATION

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- **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

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- **Nyeova Systems** Parker, CO - USA  
*Senior Software Engineer* May 2020 – Present
  - Led PigeonUltra project, creating an innovative online food delivery app for 200+ clients, emphasizing excellence and community impact.
  - Optimized project structure, resulting in a 40% productivity increase and enhanced scalability..
  - Nurtured and empowered five trainees, fostering skill development and embodying scholarship values.
  - Designed cloud server architecture for seamless deployment, minimizing manual intervention.
  - Provided insightful feedback, reducing software development time by 56%.
- **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.
- **Asqii LLC** Kumasi, Ashanti - Ghana  
*Back-end Developer* September 2019 – October 2020
  - Enhanced productivity by 40% through workload assessments and innovative operational processes for SchoolDesk, a school management platform.
  - Contributed to public marketing efforts for the SchoolDesk Application.
- **Remotech LLC** Kumasi, Ashanti - Ghana  
*FullStack Software Engineer* December 2019 – January 2020
  - Implemented a full-stack mobile application, Automote ; An IoT based mobile application for controlling the lightening system of homes, offices and street lights.
- **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
  - Conducted maintenance and code reviews on SchoolDesk application.
  - Quality Assurance testing.
  - Assisted the company in marketing the SchoolDesk Application to the general public.
- **Appatech Research Ghana** Kumasi, Ashanti - Ghana  
*Backend developer* August 2017 – June 2017
  - Code maintenance and debugging
  - Worked together with my colleagues in resolving bugs and issues

## TEACHING EXPERIENCE

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- **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

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- 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

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- 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

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- **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)