

BENJAMIN QUARTEY

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Education

University of Memphis

Sep. 2024 – May 2028

Bachelor of Science in Computer Science

Memphis, TN

Relevant Coursework

- Data Structures
- Machine Learning
- Artificial Intelligence
- Calculus
- CyberSecurity
- Database Management
- Software Engineering
- Computer Architecture

Experience

Ghana Grid Company

August 2023 – October 2023

Software Engineer Intern

Accra, Ghana

- Optimized bundle size and runtime performance of flagship landing page using Next.js server-side capabilities, resulting in a 60 percent improvement in load times and reduced churn.
- Utilized cloud-based technologies including S3, EC2, Lambda, and IAM, optimizing system performance by 25 percent and enhancing security measures.
- Contributed to agile development, delivering over 15 feature enhancements prioritizing improved user experiences, system performance, and overall software efficiency.
- Partnered with the AppDev team to resolve complex issues, including diagnosing and fixing intricate classpath misconfigurations that caused critical build failures. Cleared more than 250 findings by addressing missing dependencies, resolving conflicting library versions, and reworking build logic, restoring reliable deployment workflows.

Brand Surge Marketing

May 2024 – December 2024

Web Developer

Accra, Ghana

- Utilized Next.js's server-side rendering (SSR) and static site generation (SSG) capabilities to improve SEO, resulting in a 3x increase in organic traffic.
- Collaborated closely with designers to implement a revamped UI strategy using Tailwind CSS and lightweight UI kits, reducing the CSS bundle size of client web applications by 60 percent and enhancing maintainability.
- Collaborated on microservice architecture using Docker and Kubernetes, leading to a 30 percent reduction in release cycle durations, enabling faster releases and updates, and contributing to more efficient development cycles.
- Built advanced data fetching and querying methods using React Query by Tanstack, optimizing API requests and data caching, which resulted in a 50 percent reduction in network latency and a 85 percent increase in data loading speed.

University of Memphis

August 2025– May 2026

umTech Technical Assistant

Memphis, TN

- Provided technical support to students, faculty, and staff through the UMTech call center and in-person Tech Hub, resolving hardware, software, and account-related issues.
- Documented and escalated complex tickets to the required personnel to ensure timely follow-up and resolution.
- Collaborated with IT staff to identify recurring technical issues and propose process improvements.
- Deliver professional, customer-focused service to over 30 users daily, maintaining a 95 percent satisfaction rate.

Projects

Portfolio Website | Nextjs, Tailwind, Threejs

March 2025

- Developed a personal portfolio website using Next.js and Tailwind to showcase projects and technical skills.
- Integrated Three.js to create interactive 3D elements, enhancing user engagement and visual appeal.
- Designed a responsive and modern UI with Tailwind CSS, ensuring consistent styling and optimal performance.
- Implemented SEO best practices to optimize websites for search engines, increasing organic traffic and visibility.

Technical Skills

Languages: Python, Java, C++, HTML/CSS, JavaScript, SQL, Typescript

Developer Tools: VS Code, Google Cloud Platform, Docker, Kubernetes, Cypress, Shadcn-UI, Jenkins, Threejs

Technologies/Frameworks: Linux, Git, WordPress, React, Nextjs, Nodejs, Expressjs, Tailwindcss

Databases: MongoDB, PostgreSQL, Prisma, Supabase, Firebase

Leadership / Extracurricular

Comforting Uplifting Brothers And Sisters (C.U.B.S)

Spring 2025– Present

Head of Community Service Committee

University of Memphis

- Coordinated community events and workshops to raise awareness of mental health and personal development.
- Guided peers in creating supportive spaces that encourage open dialogue and emotional growth.
- Advocated for environmental sustainability through organized service projects and educational outreach.