

Nana Bentil Saah

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SUMMARY

Full-stack developer with strong backend expertise in Node.js, Express, and the MERN stack. Experience delivering e-commerce platforms, scalable backend services, and RESTful APIs. Proficient in JavaScript, TypeScript, React, and Next.js. Passionate about building user-focused products in fast-paced startup environments.

EDUCATION

Academic City University College

B.Sc. Computer Science — GPA: 3.92/4.0 (First Class) — Accra, Ghana

Expected Jun 2026

WORK EXPERIENCE

Freelance Web Developer

Independent Contractor

May 2024 – Present

- Built keegahguesthouse.com — hospitality website with service showcase, room galleries, and booking integration
- Developed thecouchantlioness.com — community platform with event registration, podcast integration, and blog system
- Deployed with Docker, CI/CD pipelines, Cloudinary media storage, and SEO optimization

Software Developer (Intern)

Old Mutual Ghana

May 2025 – Oct 2025

- Built Node.js/Express backend services with JWT auth, bcrypt, and Redis caching, automating 7 claim types and reducing turnaround from 5 days to under 2 days
- Designed PostgreSQL schemas and optimized queries for performance, scalability, and reliable reporting
- Deployed on AWS (EC2, RDS, S3) with Axios, Multer, CI/CD pipelines, and CloudWatch monitoring

Full-Stack Developer (Intern)

Dobiison — 360Africa

May 2025 – Aug 2025

- Built full-stack web platform with React.js cataloguing 50+ African historical sites with interactive virtual tours
- Implemented Node.js/Express backend with Prisma ORM and PostgreSQL, deployed on AWS (EC2, S3)
- Developed admin dashboard with real-time analytics, engagement metrics, and content management

PROJECTS

BlackStar AI — Retrieval-Augmented QA System

Apr – May 2026

- Developed RAG-based QA system for Ghana Budget and election data with hybrid vector + TF-IDF retrieval and grounded citation prompts
- Built FastAPI backend with FAISS vector search, token-budgeted context selection, and experiment/run logging for evaluation

Tech: FastAPI (Python), Next.js/React, FAISS, scikit-learn, sentence-transformers, OpenAI API — blackstart-ai.vercel.app

ThriftHub Ghana — E-Commerce Platform

Oct – Dec 2025

- Built full-stack e-commerce platform with 12 product categories, AI-powered style matching using OpenAI CLIP, and real-time Socket.IO notifications with Redis session caching
- Integrated Paystack API for mobile money and card payments with Payday Flex 50/50 split payment system and Campus Connect zone-based delivery routing

Tech: Next.js, React, TypeScript, Tailwind CSS, PostgreSQL, Prisma, Redis, Socket.IO, Paystack API — thrifthub-orcin.vercel.app

Academic City CV Book

Jan – Feb 2025

- Built full-stack MERN platform streamlining student-employer connections with keyword-based CV search, filtering, and matching algorithms

Tech: React.js, Tailwind CSS, Node.js, Express, MongoDB — acity-cv-book.vercel.app

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Python, SQL, HTML5, CSS3

Frontend: React.js, Next.js, Tailwind CSS, Responsive Design, React Native, Flutter

Backend & MERN Stack: Node.js, Express.js, MongoDB, PostgreSQL, Prisma ORM, RESTful APIs, JWT, bcrypt, Redis, Socket.IO

Tools & DevOps: AWS (EC2, RDS, S3), Docker, Git, CI/CD Pipelines, Vercel, Axios, Multer, Cloudinary, dotenv

Other: Algorithms, Data Structures, Agile Development, API Testing (Insomnia), Problem-Solving

CERTIFICATIONS

Front End Development Libraries, JavaScript Algorithms & Data Structures, Responsive Web Design — freeCodeCamp

LEADERSHIP & ACTIVITIES

Co-lead, Google Developer Groups on Campus — organize technical workshops and coding events; Rotaract Club member — community service projects