

Bassey Duke

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SUMMARY

Senior Software Engineer with 5+ years in TypeScript, React, Node.js, and AWS, now focused on AI products. Led full-stack integration of a live AI assistant with human-in-the-loop review for hundreds of users, and drives large migrations with Claude Code agents.

EXPERIENCE

Capital One | Senior Software Engineer | New York, NY Aug 2025 - Present

- Led full-stack integration of a live AI assistant used by hundreds of users that flags typos, wrong information, and sensitive data before messages go out, with a human-in-the-loop review UI, REST APIs, and MySQL.
- Co-built a Claude prototype that learns user preferences from conversation and asks contextual follow-up questions, placing 2nd in an internal hackathon with a 9-person team.
- Cut forced logouts 67% by tracing and fixing session bugs across tabs and services.
- Cut build time from about 5 minutes to about 2 seconds by moving a deprecated Create React App build to Rsbuild (Rspack + SWC) after evaluating 8 build tools.
- Led a React 18 upgrade with Claude Code agents, all tests passing, and now leading the Draft.js to Tiptap migration that unblocks React 19.
- Contributed to the team's Mixpanel analytics pipeline, including a reusable event ingestion package tracking 100+ metrics, and the move from RabbitMQ to Amazon SQS.
- Automated weekly branch syncs across 10 repositories, co-managed releases with zero post-release incidents, and mentored junior engineers on AWS Lambda.

Accenture | Senior Software Engineer | Philadelphia, PA Feb 2021 - Aug 2025

Promoted twice, from entry-level Software Engineer (Level 11) to Senior Software Engineer (Level 9).

- Led the migration of an Accenture Song generative AI (GenAI) prompt-to-website platform from Elastic Beanstalk to Amazon EKS, eliminating production downtime; the platform supported \$100M+ in revenue within 6 months.
- Converted the platform's frontend from JavaScript to TypeScript, standardized on Chakra UI, and built CI/CD pipelines across 4 environments, cutting QA cycles 40%.
- Drove an internal Accenture project replacing HP LoadRunner with open-source JMeter, shipping a compliant containerized build on Amazon ECR and EKS adopted by 150+ teams and saving \$2M+ in annual licensing.
- Built a full-stack COVID-19 outreach platform for a local government agency (React, TypeScript, Python, AWS Lambda and Pinpoint), delivering targeted messaging to 1M+ patients.

Comcast | Reliability Engineer Intern | Philadelphia, PA Mar 2018 - Sep 2018

- Integrated React into a legacy codebase and built RSpec and Selenium test suites reaching 99% coverage.

LEADERSHIP

Africode | Program Director, Mentorship Program (Nonprofit) | Remote Jan 2025 - Present

- Appointed by the CEO to lead mentorship for African tech talent, pairing 12 mentors with 36 mentees across 4 countries.

PROJECTS

Gallop | Open-source AI tool | gallop-ai-eight.vercel.app 2026

- Built a web app that asks several AI models the same question and shows where their rankings agree, running in the browser on the user's own OpenRouter account so no keys touch a server (Next.js, TypeScript).

SKILLS

- **AI and LLMs:** Claude, LLM integration, human-in-the-loop AI, AI guardrails, agentic coding (Claude Code, Windsurf, Copilot)
- **Languages:** TypeScript, JavaScript, Python, SQL
- **Frontend:** React, Next.js, Redux, React Router, Tailwind CSS, Chakra UI, Material UI, Tiptap, Rsbuild
- **Backend and Data:** Node.js, Express, REST APIs, Swagger/OpenAPI, Knex, Objection.js, Prisma, MySQL, Redis, RabbitMQ
- **Cloud:** AWS (Amazon Web Services), Lambda, SQS, API Gateway, ECR, EKS, CloudWatch, Pinpoint, Docker, Kubernetes, CI/CD
- **Testing and Analytics:** Jest, React Testing Library, Selenium, Mixpanel

EDUCATION

Drexel University | B.S. in Computer Science, Concentration in Artificial Intelligence | Philadelphia, PA 2020

Honors: AJ Drexel Scholarship