

Moctar Sako

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EDUCATION

CUNY New York City College Of Technology

B.S. in Mechanical Engineering & Minor in Computer Science

Brooklyn, NY

Expected: May 2027

Relevant Coursework: Thermodynamics, Fluid Mechanics, Machine Design, Data Structures & Algorithms, Object-Oriented Programming, Linear Algebra, Calculus III

Affiliations/Organizations: ColorStack, Project Basta, 2nd Place at JP Morgan Data For Good, GE Aerospace L.I.F.T Summit

TECHNICAL SKILLS & INTERESTS

Engineering & CAD Tools: AutoCAD, SolidWorks, Mastercam, Fusion 360, Machining (CNC Milling, Grinding, Boring, Turning)

Languages: Python, C, C++, Java, JavaScript (React), Scala, SQL, HTML/CSS, MATLAB

Applications & Tools: GitHub, VS Code, Docker, AWS, FastAPI, CI/CD, Splunk, Jira, ServiceNow, Salesforce, Bloomberg Terminal

WORK EXPERIENCE

Intuit

Charlotte, NC

Software Engineering Intern

May 2026 - Aug 2026

- Designed and engineered a full-screen mobile dashboard takeover in **React Native** targeting **~1.16M eligible members** to drive Bill Calendar adoption, validated through an **A/B experiment** benchmarked at a **5% Click-Through Rate target**
- Contributed to the design and engineering of **True Balance** using **Scala** and **GraphQL**, a dynamic cash flow feature calculating members' real spendable balance after upcoming bills and expenses, resolving bugs across bill state logic, payment detection, and calendar UI during a phased production rollout targeting **+0.5-1.0% Weekly Active User lift**
- Built AI-powered **Slack bot** using **Node.js** and **TypeScript** to guide engineers through release testing decisions and ship/block recommendations, replacing a dedicated QE engineer

Success Academy Charter Schools

New York City, NY

AI Product Engineer Intern

Oct 2025 - May 2026

- Designed and deployed an executive-facing **AWS FinOps dashboard** using **React, TypeScript, FastAPI, and Amazon Bedrock** for the CTO, consolidating real-time cost visibility across **11 AWS accounts** and enabling **\$100K+** in potential AWS cost optimizations through AI-powered spend analysis
- Built full-stack AI recruiting tool using **TypeScript, Python, and SQL** that analyzes interview transcripts and resumes to evaluate candidate performance, saving **1,000+ hours monthly** across **20+ recruiters** by automating session comparisons through an admin dashboard

Bloomberg L.P.

New York City, NY

Operations Engineering Intern

May 2025 – August 2025

- Increased resolution efficiency and improved employee experience by addressing **200+** technical issues for **20,000+** staff across desktop, laptop, mobile, and AV systems, applying root cause analysis to minimize disruptions
- Optimized system reliability and reduced software incidents by **15%** by optimizing **400+** software titles and reinforcing security with Azure/Active Directory, SCCM, Intune, JAMF, and CyberArk
- Engineered workflow improvements by analyzing **1,000+ support tickets** and collaborating in Agile sprints with a 4-person team to design a badge-in system that increased accuracy by **15%** and resolution speed by **20%**

Success Academy Charter Schools

New York City, NY

Rotational Technology Co-op

Aug 2024 – May 2025

- Resolved **375+** hardware and software support tickets across **53 schools** via ServiceNow, achieving **80% same-day resolution** through root cause analysis and multidisciplinary team collaboration
- Developed a predictive model for AP exam cutoff scores with **80% accuracy** by analyzing historical scholar performance and external benchmarks, enabling leadership to anticipate scoring shifts and refine academic planning

SELECTED PROJECTS

JP Morgan Chase Data for Good — The Concilio

- Placed **runner-up** at JPMC Data for Good Hackathon, analyzing Latino community health data revealing **1 in 3 members uninsured** and building a React dashboard to prioritize nonprofit outreach

Knicks Home-Court Advantage Analysis

- Analyzed **45+ seasons** of Knicks game data with Python (Pandas, SQL), building statistical models and visualizations that showed the team performed significantly better in home games at Madison Square Garden compared to away games

LEADERSHIP & INVOLVEMENT

American Society of Mechanical Engineers | Secretary

Jan 2025 - Present

Management Leadership for Tomorrow | Career Prep Fellow

Jun 2024 - Present