

NATHAN BAILEY

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Full Stack Engineer | React, Next.js, Node.js, GraphQL | AI-Driven Web Systems & Scalable Product Development

EDUCATION

Georgia State University | College of Arts and Sciences

Atlanta, GA

Bachelor of Science in Computer Science, Minor in Computer Information Systems | GPA: 3.7/4.0

December 2025

- Honors: President's List (2025), Academic Excellence Award, Dean's List (2022 – 2025)
- Relevant Coursework: Data Structures & Algorithms, Generative AI, Database Systems, Software Engineering

SKILLS

Languages: TypeScript, JavaScript, Python, SQL, Java

Frameworks: React.js, Next.js, Node.js, Apollo GraphQL, PostgreSQL, Docker, AWS, Firebase, Supabase, Tailwind CSS

Practices: Agile (Scrum), CI/CD, TDD, System Observability, OOP, REST & GraphQL API Design

Technical Strengths: AI data integration, full-stack scalability, system automation, and performance optimization

TECHNICAL PROJECTS

Dark Alpha Email Client – Full Stack Software Engineer | Team of 3

[GitHub](#)

Tech: React.js, Next.js, TypeScript, Supabase, Node.js, Tailwind CSS

- Built a real-time email automation platform supporting bulk and personalized message delivery using modular templates.
- Integrated AI-assisted content generation workflows for dynamic message drafting and metadata tagging.
- Enhanced query reliability and optimized database performance, cutting load times by 40%.
- Implemented CI/CD pipelines with component-level testing to ensure scalable, production-ready deployments.

MineByte – Full Stack Software Engineer | Team of 5

[GitHub](#)

Tech: React.js, Node.js, Firebase, JavaScript

- Developed a real-time browser IDE that integrates code execution APIs and persistent user sessions.
- Built internal tools for debugging and observability, reducing issue reproduction time by 30%.
- Designed reusable testing utilities and automation scripts to maintain reliability across multiple environments.

Price Searcher – Full Stack Software Engineer | Solo Project

[GitHub](#)

Tech: React.js, Flask, Python, REST API

- Designed a data-driven product search platform integrating multiple APIs with token-based authentication.
- Applied user feedback loops and A/B testing for enhanced UI performance and engagement.
- Automated testing and deployment through GitHub Actions and CI/CD workflows.

PROFESSIONAL EXPERIENCE

Dark Alpha Capital LLC – Software Engineer Intern

Remote | August 2025 – December 2025

- Debug front-end and API issues across the stack to maintain reliability and performance.
- Manage GitHub workflows and CI pipelines, improving deployment success rate by 25%.
- Participate in daily triage meetings to resolve blockers and deliver rapid hotfixes.

CodePath – Tech Fellow Manager (Teaching Assistant)

Remote | August 2025 – Present

- Mentor 10+ fellows in JavaScript, React, Node.js, and API development best practices.
- Conduct weekly workshops on debugging, Git workflows, and cloud deployment strategies.
- Collaborate on internal DevOps tooling and onboarding improvements, raising course completion rates by 20%.

Data Annotation / Outlier.ai – AI Data Quality Specialist

Remote | April 2025 – Present

- Designed and automated data validation pipelines, improving dataset accuracy and consistency for ML systems.
- Wrote Python scripts to automate quality checks, reducing manual errors and QA cycle time by 15%.
- Supported model-training operations for large-scale datasets, collaborating on data ingestion reliability.

Georgia State University – Learning Environments Support Technician

Atlanta, GA | August 2022 – May 2023

- Maintained technical environments for 50+ classrooms and lab systems.
- Implemented automation scripts for configuration checks and error reporting.
- Provided Tier-1 support, ensuring high system availability and quick incident resolution.

ASSOCIATIONS

- National Society of Black Engineers (NSBE) — Member 2024 - 2025
- Cybersecurity Club, GSU — Member since 2024 - 2025
- National Society of Collegiate Scholars (NSCS) — Member since 2024 – 2025