

MIRENGE INNOCENT

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PROFESSIONAL SUMMARY

Software Engineer with experience building production software, AI-powered applications, and enterprise-scale systems. M.S. Computer Science student at Georgia State University with hands-on experience developing software at The Home Depot using Java, TypeScript, React, Spring Boot, cloud technologies, and modern AI development tools. Passionate about building scalable, secure applications through CI/CD, testing, accessibility, Agile development, and responsible AI engineering.

EDUCATION

Georgia State University — Atlanta, GA

Expected Dec 2027

M.S. in Computer Science — Focus: Artificial Intelligence, Software Engineering, Distributed Systems, Cloud Computing

Georgia State University — Atlanta, GA

Graduated May 2025

B.S. in Computer Science — GPA: 3.76 | HOPE & Coca-Cola Scholar | President's List (6×), Dean's List (5×)

Relevant Coursework: Data Structures & Algorithms, Software Engineering, Cloud Computing, Distributed Systems, Operating Systems, Database Systems, UI/UX Design

PROFESSIONAL EXPERIENCE

Software Engineer Intern — The Home Depot, Supply Chain Technology, Atlanta, GA

May 2026 – Jul 2026

- Developed production React and TypeScript features for the RDC Digital Twin, a real-time warehouse visualization platform supporting Supply Chain operations.
- Built interactive React and TypeScript components to visualize live conveyor systems, carton movement, KPIs, and historical replay of warehouse events.
- Developed production software using modern AI-assisted engineering workflows alongside React, TypeScript, Git, and Agile development practices while collaborating with senior software engineers.
- Collaborated daily with senior software engineers using Agile methodologies, Git, pull requests, code reviews, and Jira.
- Developed, tested, and deployed production-ready features while maintaining a large enterprise codebase with hundreds of automated tests.

Student Software Engineer / IT Specialist II — Georgia State University, Clarkston, GA

Aug 2021 – Present

- Developed, tested, and deployed 5+ production-ready full-stack web applications using Java (Spring Boot) and Python (Flask) with secure authentication and responsive UI (React/Angular).
- Built RESTful APIs and optimized SQL queries, improving performance by 25% while supporting maintainable code through version control (Git) and Agile collaboration.
- Implemented CI/CD pipelines (GitHub Actions) for automated testing and deployment, cutting release time by 40%.
- Integrated unit, integration, and E2E testing frameworks (JUnit, Cypress), reducing post-release defects by 30%.
- Partnered with cross-functional teams to plan sprints, review code, and document progress, developing strong communication and adaptability.
- Leveraged cloud computing and microservice architecture to improve scalability and deployment reliability.

PROJECTS

E-Commerce Platform (Capstone) — Java, Spring Boot, REST APIs, React, MySQL, Docker, GitHub Actions

- Architected microservices with JWT authentication, deployed to AWS ECS, and managed CI/CD workflows.
- Designed front-end components with React for a responsive user experience and integrated secure back-end APIs.

AI Document Assistant (RAG Application) — Next.js, FastAPI, PostgreSQL, Ollama, OpenAI API, FAISS

- Built a privacy-first Retrieval-Augmented Generation (RAG) application for intelligent document search.
- Integrated local LLMs, semantic search, JWT authentication, and conversational memory.
- Designed a scalable architecture supporting secure AI-assisted document interaction.

LEADERSHIP & INVOLVEMENT

- Member, GSU Computer Science Graduate Association — organized coding workshops and peer learning sessions.
- Presenter, GSU Innovation Week 2025 — demonstrated cloud automation and AI solutions.
- Mentor, CodePath — reviewed code, answered technical questions, debugged software projects, and supported software engineering coursework.

TECHNICAL SKILLS

Languages: Java, Python, JavaScript, TypeScript, C++, SQL, HTML, CSS

Frameworks & Tools: React, Spring Boot, Flask, Node.js, Material UI, Git, Jira, GitHub, Agile, Linux, Claude code, GitHub Copilot, SDD

Databases: MySQL, PostgreSQL, MongoDB, SQLite, Firebase

Cloud & DevOps: AWS, Docker, GitHub Actions (CI/CD), Kubernetes (exposure)

Testing: JUnit, Vitest, PyTest, Cypress, Jest

Concepts: REST APIs, Microservices, Agile Development, Version Control, Accessibility