

Emmanuel Pierre

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Computer Science student specializing in backend engineering, distributed systems, and applied machine learning

EDUCATION

University of Georgia

Athens, GA

Bachelor of Science in Computer Science

May 2026

Relevant Coursework: Distributed Systems, Operating Systems, Computer Architecture, Deep Learning, Data Mining, Data Structures, Algorithms, Software Engineering

TECHNICAL SKILLS

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

Frameworks: Spring Boot, Flask, React, Next.js, TensorFlow, PyTorch, Celery

Infrastructure: AWS, Docker, CI/CD, Kafka, Redis, PostgreSQL, MongoDB, Git, JUnit

AI Tools: Claude Code, LangChain, Cursor, Codex, MCP

WORK EXPERIENCE

Oracle

May 2025 - Aug 2025

Software Engineering Intern - Fusion Cloud ERP

Redwood City, CA

- Developed a Java microservice to match receipts to expense reports, processing **5,000+ transactions/hour** with automatic retries on failures
- Built a Python pipeline to convert historical XML expense data to JSON for ingestion into the matching service, enabling automated evaluation against real transaction payloads
- Designed an A/B testing platform to improve agent prompts, increasing expense-matching accuracy by **12%**
- Automated weekly data aggregation via Python scripts, eliminating **2+ hours** of manual reporting per week

General Electric Vernova

May 2024 - Aug 2024

Software Engineer Intern

Atlanta, GA

- Built a multi-threaded Python service to ingest **1M+** emails from the Azure Graph API, using in-memory job queues to parallelize processing
- Migrated legacy unstructured data to AWS S3 using **Boto3** to meet data governance requirements
- Wrote automated tests to validate data consistency across cloud migration stages

University of Georgia


Jan 2023 - Present

Peer Tutor (Computer Science & Math)

Athens, GA


- Tutored **150+ students** one-on-one in CS and Math, breaking down difficult concepts using concrete examples

PROGRAMMING PROJECTS

NagAI -  | *Python, Spring Boot, Next.js, PostgreSQL, Redis*

Mar 2026

- Built and deployed a full-stack accountability app on **AWS** with goal creation, AI checklists, daily plans, and email agents
- Decoupled AI service from core API using **Redis Streams** and **gRPC**, keeping API response times under 2s
- Built an email agent with tools to send adaptive check-ins, fetch relevant articles, update checklists, and persist messages to the database

Agora -  | *Next.js, Firebase, Gemini API*

Feb 2026

- Built a live debate platform with audio-to-text input and an AI judge that flags logical fallacies and scores arguments
- Reduced redundant AI calls by **caching** circular arguments and used server-side Firestore timestamps to automatically close debates after a set duration

StreetCleanr - Devpost | *Python, Flask, TensorFlow*

Feb 2024

- Won **1st Place Overall** (100+ teams) by building a web app that routes volunteers to nearby litter locations
- Developed a CNN model using TensorFlow to classify images of littered streets, achieving **89% detection accuracy**
- Added an active learning loop that lets users label low-confidence images to incrementally improve model performance

LEADERSHIP

Association for Computing Machinery | *Co-Chair*

Aug 2025 - May 2026

- Led weekly coding labs and mock interviews to help members prepare for technical recruiting
- Collaborated with officers to restructure the workshop curriculum, increasing session participation

Minorities in Tech | *Event Coordinator*

Aug 2024 - May 2025

- Organized technical workshops on career readiness for underrepresented CS students, covering resume review, interview prep, and industry expectations
- Managed presenter scheduling, logistics, and outreach to maintain consistent attendance across events