

Franck Tayo

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EDUCATION

Bachelor of Science in Computer Science | GPA: 4.0/4.0

Jan 2022 – Dec 2025 | Kennesaw, GA

Kennesaw State University

Relevant Coursework: Data Structures and Algorithms, Operating Systems, Database Systems, Web Development, Artificial Intelligence, Parallel and distributed computing, Computer Organization, Big Data, Computer Networks, Software Engineering

TECHNICAL SKILLS

Programming Languages — Python, Node.js, Java, JavaScript, C, HTML/CSS, SQL

Software Tools/Frameworks — SpringBoot, FastAPI, Git, Linux, React, AWS, Docker, Flask, CI/CD, Postman, Redis

PROFESSIONAL EXPERIENCE

Software Engineer Intern | PACI

Dec 2024 – present


- Led **SQLite to PostgreSQL** migration for production application serving 100+ users, achieving zero data loss and 40% improved query performance through comprehensive schema optimization and cross-functional collaboration with product and QA teams
- Reduced database initialization time from hours to seconds by building production-grade Python automation scripts with SQLAlchemy ORM and automated seed generation, accelerating development cycles for 5-person engineering team
- Architected end-to-end resume review system for alumni network serving 100+ users, designing PostgreSQL schema with role-based access control, integrating **AWS S3** for scalable storage handling 1,000+ uploads, and implementing FastAPI endpoints with JWT authentication middleware

Software Engineer Intern | Intelligentsia SA

Jun 2023 – Aug 2023

- Developed automated monitoring system using **Python** scripts to track ATM network health across 20+ machines for 4 banking clients, reducing manual inspection time by 60% and enabling proactive issue detection
- Built internal diagnostic tool processing 200+ weekly service logs, implementing data parsing algorithms to identify failure patterns and generate automated alerts, improving mean time to resolution from 4 hours to 2 hours
- Created technical documentation system and troubleshooting knowledge base using structured data storage, reducing new engineer onboarding time by 50% and standardizing incident response procedures across support team

PROJECTS

CacheGrid: High-Performance Distributed Cache System 

Python, FastAPI, Docker

- Built RESTful cache API serving **1,000+ requests/second** with sub-10ms latency using FastAPI async I/O, demonstrating scalability patterns for high-traffic enterprise systems with production-grade error handling and monitoring
- Implemented **LRU/LFU eviction** policies managing 10,000+ cached items with configurable TTL, deployed with **Docker** containerization and real-time health monitoring endpoints

Restaurant POS Backend System 

Python, FastAPI, SQLAlchemy, PostgreSQL, Pydantic, JWT, Bcrypt

- Designed RESTful API with role-based access control supporting 100+ concurrent requests across 4 user types, ensuring **ACID** compliance across 1,000+ daily transactions with comprehensive input validation
- Achieved 99.9% security coverage implementing JWT authentication, **bcrypt hashing**, and automated CRUD endpoints, reducing administrative overhead by 90% through schema-driven validation

Movie Recommendation Platform 

React.js, Node.js, PostgreSQL, Scikit-learn

- Built full-stack ML recommendation engine achieving 90% accuracy using **TF-IDF** vectorization and cosine similarity algorithms on 10,000+ movie dataset with personalized collaborative filtering
- Delivered sub-2-second response times through Redis caching and asynchronous processing with **Node.js**, implementing **JWT** authentication for secure user sessions

LEADERSHIP AND PROFESSIONAL DEVELOPMENT

Adobe Student Ambassador

Aug 2025 – Present

Promoted Adobe Creative Cloud adoption through campus workshops and events reaching 200+ students

ColorStack Member

Nov 2024 – Present

Active participant in tech diversity community supporting underrepresented students through technical workshops and networking