

AYOBAMI PAUL ADEYEMO

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Education

MSc SOFTWARE ENGINEERING | University of Hertfordshire | 2024 - 2025

B.Eng. COMPUTER ENGINEERING | Covenant University | 2017 – 2022

Technical Skills

- Languages: Python, JavaScript, TypeScript, Java
- Frontend: React.js, Next.js, HTML5, CSS3, Tailwind CSS, Responsive Design
- Backend: FastAPI, Spring Boot, RESTful APIs
- Tools: Git/GitHub, Docker, React Query, Redux, Jest
- Databases: MySQL, PostgreSQL
- Practices: Agile/Scrum, Test-Driven Development, API Design, Performance Optimization

Experience

FRONTEND ENGINEER | TECHSPERTISE | JUNE 2024 – MAY 2025

- Architected and shipped LMS serving 1,000+ concurrent users with 99.9% uptime, implementing course management, and real-time progress tracking
- Optimized application performance by migrating from Redux to React Query, reducing bundle size by 30% and improving load time by 40%
- Collaborated with 3 backend engineers to design and implement RESTful APIs, achieving 35% faster data fetching through pagination, caching, and request batching
- Built responsive component library with Tailwind CSS, ensuring consistent UX across 5 user roles and 15+ pages

CYBERSECURITY ANALYST | SMSAM SYSTEMS LIMITED | JANUARY 2023 – MAY 2024

- Executed Conducted security assessments for 20+ clients across finance and healthcare sectors, identifying 100+ critical vulnerabilities with CVSS scores >7.0
- Authored detailed penetration test reports with remediation strategies, achieving 90% implementation rate within 30 days
- Discovered and responsibly disclosed 15 zero-day vulnerabilities in collaboration with vendor security teams

SYSTEMS SUPPORT ENGINEER [INTERN] | EKO ELECTRICITY DISTRIBUTION COMPANY | MAY – OCTOBER 2021

- Designed and delivered technical training for 100+ staff on network security and troubleshooting, reducing support tickets by 40%
- Assisted in enterprise firewall deployment protecting customer data for 10,000+ users across 5 substations
- Resolved hardware, software, and network incidents with average resolution time of 2 hours, reducing downtime by 25%

Projects

DIGITAL WALLET SYSTEM | [Source Code](#)

- Built Designed and implemented microservices-based digital wallet with eventual consistency using Saga pattern
- Built transaction service ensuring ACID compliance for concurrent operations using PostgreSQL row-level locking
- Integrated Apache Kafka for event streaming between 4 microservices, achieving <50ms inter-service latency
- Containerized services with Docker and orchestrated with Docker Compose for local development

Tech Stack: Java, Spring Boot, PostgreSQL, Apache Kafka, Docker, REST APIs

BRANDNEST - AI BRANDING ASSISTANT | [Source Code](#)

- Built AI-powered branding tool generating custom brand names, taglines, and keywords for users
- Developed responsive frontend with Next.js 14 and TypeScript, implementing real-time AI streaming with React Suspense
- Integrated Groq API for LLM inference, implementing retry logic and rate limiting for 99% uptime
- Designed RESTful backend with FastAPI, processing 50+ requests/minute

Tech Stack: Next.js, TypeScript, Python, FastAPI, Tailwind CSS, Groq API

FACE RECOGNITION FAIRNESS ANALYSIS | [Source Code](#)

- Evaluated demographic bias in FaceNet across 10,000+ images from FairFace and UTKFace datasets
- Applied SHAP, LIME, and Grad-CAM for model interpretability, revealing 15% accuracy disparity across races
- Documented findings in 20-page technical report with statistical analysis and bias mitigation recommendations

Tech Stack: Python, TensorFlow, SHAP, LIME, Jupyter Notebook, NumPy, Pandas

SOCIAL DISTANCING MONITOR | [Source Code](#)

- Built computer vision system using YOLOv8 detecting 30+ people per frame
- Implemented Flask streaming server with OpenCV for real-time video processing and visualization
- Implemented distance calculation using Euclidean distance algorithm for 95% detection accuracy

Tech Stack: Python, YOLOv8, OpenCV, Flask, NumPy