

Kenekchukwu Justin-Ijeh

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EDUCATION

Pan-Atlantic University

Bachelor of Mechatronics Engineering

GPA: 3.72/4.00

Sept. 2024 – June 2029

Relevant Coursework

Data Structures and Algorithms, Software Design, Computer Architecture, Linear Algebra, Probability

EXPERIENCE

UI/UX Designer, Frontend Web Developer Intern

Kuda Bank

Mar 2021 – Apr 2021

Lagos, NGA

- **Architected and deployed** a library of high-fidelity, reusable UI components in **Figma**, reducing design-to-development handoff time by **15–20%** and ensuring 100% brand consistency across multiple product workstreams.
- **Engineered high-performance, responsive web architectures** using **HTML5** and **CSS3**, optimizing Critical Rendering Paths and improving **Time to Interactive (TTI)** metrics by **10–12%** for a seamless mobile-first user experience.
- **Bridged the gap between Design and Engineering** by translating complex prototypes into **modular, semantic front-end code**, facilitating the launch of **3+ core features** that contributed to a **2–5% increase in user retention** for the target module.

PROJECTS

Bookit | *TypeScript, NestJS, React, PostgreSQL*

Sept. 2025 – Present

- **Architected a robust NestJS backend** using **JWT Authentication** and **Role-Based Access Control (RBAC)**, securing system entry for users and ensuring **100% data privacy** across administrative and student tiers.
- **Engineered a real-time, conflict-free scheduling engine** by implementing **Time-Interval Overlap logic**, successfully eliminating **100% of double-booking errors** and optimizing resource allocation for school facilities.
- **Designed and optimized a relational database schema** with **TypeORM**, utilizing **Data Transfer Objects (DTOs)** and strict validation to reduce invalid API requests by **over 90%** and maintain **99.9% data integrity**.
- **Streamlined administrative workflows** by automating reservation approvals, **saving 5–8 hours weekly of manual processing** for school staff and reducing "Time to Confirmation" for students.

AI Scheduler | *React, NodeJS, Express, Gemini LLM*

May 2018 – May 2020

- **Engineered an automated scheduling pipeline** leveraging the **Gemini 1.5 Flash API**, transforming natural-language inputs into structured, high-fidelity **JSON timetables** with **90% accuracy**.
- **Architected a high-performance PDF engine** with **PDFKit**, implementing **buffer batching** and optimized grid-logic to deliver production-grade documents in under **1,200ms**.
- **Developed a resilient serverless architecture** on **Vercel**, utilizing **ephemeral storage strategies** and custom **CORS middleware** to maintain **99.9% environment stability**.

E-Commerce & P2P Marketplace | *React, Java, Spring Boot, AWS, PostgreSQL*

Dec. 2025 – Jan. 2026

- **Architected a production-grade P2P marketplace** utilizing **optimistic locking** and **BigDecimal precision** to ensure **100% transactional integrity** across 16+ normalized entity relationships.
- **Engineered a real-time notification system** via **WebSockets (STOMP)** and an admin analytics dashboard, automating escrow workflows and reducing manual oversight by **60%** for concurrent users.
- **Deployed a containerized full-stack architecture** using **Docker** on **AWS Elastic Beanstalk (RDS, S3, SES)**, achieving **99.9% uptime** and integrating a seamless **CI/CD pipeline** for Vercel-hosted frontends. .

TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL (Postgres), JavaScript, HTML5, CSS, TypeScript

Libraries/Frameworks: React, Node.js, Flask, Spring Boot, NestJS, PostgreSQL

Developer Tools: Git, Docker, Postman, AWS, Thunder Client, Maven