Jeremiah Lena

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EDUCATION

University of Lagos, Nigeria *November 2019 - February 2025*

Relevant Coursework: Introductory Computer Science, Software Workshop (Programming in C), Introduction to Computer Programming, Linear Algebra (Vectors, Matrices, Linear Maps and Transformations)

Final Project Topic: Optimization Techniques in Modern Portfolio Theory: Focus on the Nigerian Stock Exchange Using Lagrangian Multipliers.

WORK EXPERIENCE

ITEX Integrated Services (Financial Organization) Lagos, Nigeria

*Software Engineer (Frontend)* *July 2023 - August 2024*

* Collaborated in building a platform for managing applications installed on the company’s terminals. I personally worked on helping the terminals in the field get support from the company’s support team by implementing video-conferencing using Jitsi Meet. This allows the support teams to see what is on the screen of the POS terminal which significantly reduced the time spent on each support ticket.
* Built a user-pleasing, functional interface for merchants and banks to track their transactions, view terminals and analyse their business performance. This was built using Typescript, NextJS, React, and Redux Toolkit.
* Collaborated in redesigning ITEXPay’s website, optimizing for mobile responsiveness and performance by preventing unnecessary rerenders using memoization. This resulted in a 15% increase in positive customer reviews.

Fusion Intelligence Lagos, Nigeria

*Frontend Engineer* *March 2022 - September 2023*

* Developed the client side of a skill acquisition platform which allows users to access video courses, complete assessments, read documents and obtain certificates. This was built with ReactJS, NextJS, Typescript, and Redux Toolkit. I also implemented payment processing for users to pay for the courses.
* Wrote a Python script to generate certificates in the form of images for users using Pillow, SQlAchemy and Python.
* Led the frontend team which built an ERP software and improved team efficiency by implementing a proper coding standard, and organizing regular meetings to discuss project progress.

SOFTWARE PROJECTS

Scout [Live](https://scout-ruddy.vercel.app) [Github](https://github.com/lenajeremy/scout)

* An API-testing website that allows developers to test their APIs before deploying, it has support for offline API testing. I built an npm package [Invynsible](https://www.npmjs.com/package/invynsible) that runs the app on the developer’s machine.
* Implemented support for Postman collections and Swagger API docs, to aid easy portability to my software.
* Created a custom input field for users to utilize preset variables (like Postman) when setting the request URL and implemented a custom parser to replace the variable key with the actual value before making an HTTP request.
* Used Redux Toolkit and ContextAPI to manage local and global states.

ReadNews (Backend) [Github](https://github.com/Yaba-Valley/Iroyin-Backend)

* Built 25 scrapers to scrape news which scraped about 74,000 news articles and set up a cronjob to run the scraper at a 2-hour interval.
* Utilized Python’s asyncio package to run scrapers asynchronously, drastically improving the scraper runtime from about 4 minutes to 20 seconds.
* Created an email notification service to send emails for onboarding, user verification, account activation, and password reset, as well as notifications for the developers on the team to know the status of the scrapers, how much new news was scraped, the scrapers that failed and the ones that scraped news successfully.
* Incorporated JSON Web Token (JWT), a secure technology for authenticating users.
* Wrote tests for all the scrapers to ensure they worked fine and alerted the developers when they failed. I also ensured that the scraping procedure was fail-safe and that the failure of a single scraper would not affect the entire scraping process.  
  TOOLS: Python, Django, asyncio, requests, BeautifulSoup, django-rest-framework, mailjet.

ReadNews (Mobile App) [Github](https://github.com/lenajeremy/ReadNews)

* A machine-learning-powered news reading app that recommends news to users based on their interests, and their interactions (liked, read and saved news).
* Built the app using React Native, Expo, Reanimated, and Redux Toolkit and ensured the app had a performance and visually appealing interface. I implemented dark mode and ensured the app UI responded to the device’s theme.
* Created an onboarding screen with smooth animations with React Native Reanimated.

SKILLS & INTERESTS

Programming Languages: Javascript, Python, Typescript, Go, Swift, HTML5, CSS3.

Software Frameworks: React, React Native, NextJS, Django, SwiftUI, Tailwind CSS, Firebase.

Tools: Git, Azure, Figma, PostgresQL, GSAP.

I also enjoy teaching programming, researching on areas in which mathematics can be applied in the real world, data structures & algorithms and researching software engineering design principles & patterns.