

JEREMIAH Patrick.

BACKEND SOFTWARE ENGINEER

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SUMMARY & OBJECTIVES

A Backend engineer with 4 years working experience in TypeScript, Node.js, NestJS and Python for scalable, data-driven solutions. Experienced in microservices and monolithic architectures with expertise in relational and non-relational databases. Known for solving complex business challenges and optimizing backend systems, seeking to contribute to a team focused on high-impact, and quality products.

SKILLS

Core Competencies: Backend Development, API Integration & Development, Artificial Intelligence, Database management, Payment Gateway Integration, Frontend Development, System Architecture, Plugins and Extensions Development, Technical Leadership, Client Communication, Team Mentoring.

Operating Systems: MacOS, Windows, Linux.

Infrastructure & Deployment: NGINX, Docker, PM2, CI/CD

Programming Languages: JavaScript, TypeScript, Python, Java, HTML5, CSS3, NodeJS.

Frameworks: NestJS, ExpressJS, Django, Flask.

Version Control: Git (Github, Gitlab).

Payment Gateways: Stripe(PayStack), Anchor, Flutterwave, Safehaven, NCube.

Cloud Platforms: AWS, Azure, Render, Heroku, Railways.

Databases & ORMs: MongoDB, TypeGoose, TypeOrm, PostgreSQL, SQL, Prisma, KnexJS, ObjectiveJS, Redis.

Protocols: HTTPS, RestAPI, RabbitMQ, GraphQL, gRPC, tRPC, BullMQ.

Languages: English(fluent).

Hobbies: Drawing, Listening, Music, Studying, Sleeping.

WORKING EXPERIENCE

[TRIDE](#) - Backend Engineer. (Hybrid)
NodeJS(Typescript)

Dec., 2022 - Present (Contract)

A financial management application for non-profit organizations, focusing on backend architecture, security, and seamless user experience.

- Oversaw, developed and deployed Tridehq, scaling it to process **₦25 Million+** in transactions with **80+** register users and **20+** active users.
- Designed and implemented APIs that powered key features, contributing to **rapid MVP** deployment and scalability.

- Engineered a robust and scalable payment gateway integration to ensure secure and seamless transactions.
- Optimized system performance and reliability, enabling smooth user onboarding and transaction handling.
- Worked closely with the product team to align backend functionality with user-centric designs and requirements.
- **Led discussions with stakeholders** to define technical requirements and align backend solutions with business goals.

Languages & Tools: *Typescript, MongoDB, Node.js, Anchor, **AWS**(for Server Storage Service), Git & Github*

[MyServiceAgent](#) - Backend Engineer (Remote)

NodeJS(Typescript)

Nov., 2023 - Sept., 2025 (Full-time)

An artificial intelligence (AI) powered intelligent IVR system that can communicate with hundreds to thousands of callers simultaneously and intelligently and disseminate correct information from the Nigeria Centre for Disease Control as well as pass on the data to the NCDC to act on swiftly.

- **Refactored and rewrote** the company's SMS messaging portal from **PHP** to **Node.js** with **TypeScript** alongside with the Admin portal, helping to improve maintainability and scalability.
- **Built reusable API endpoints** that works around both portals to support smooth SMS creation, delivery, and reports, ensuring flexibility for future feature expansion.
- **Integrated SMS providers** (e.g., InfoBip, Billyronks, AfricaTalking), enabling cost-effective routing and high message deliverability.
- **Implemented cost estimation and unit balance validation**, ensuring accurate billing and preventing overspending on SMS campaigns
- **Optimized system performance and developer workflow** by improving code structure, introducing better error handling, and writing testable code.

Languages & Tools: *TypeScript, NodeJS, MySQL, MongoDB, BullMQ, PM2, NGINX, Git & GitHub.*

HIGHLIGHTED PERSONAL PROJECTS.

MBPerf – Mobile Network QoS Monitoring & Prediction App. It's a mobile application designed to analyze and predict **network quality of service (QoS)** in various geographical locations.

- Built and deployed a Flask API integrating ML models (Random Forest, SVM, MLP) for predicting mobile network performance with **91%** accuracy.
- Engineered ML pipelines using **scikit-learn** with **GridSearchCV** and **VotingClassifier** to optimize model performance.
- Developed RESTful APIs and integrated them with Firebase for data storage and Render for public access
- Collaborated with a university lecturer to analyze signal data and deliver actionable insights through real-time predictions
- Managed codebase using Git and GitHub, ensuring reproducibility and deployment readiness.

Languages & Tools: Python, Flask, Scikit-learn, Firebase, Render, REST API, Git, GitHub.

EDUCATION

UDEMY

December, 2021 – Jan., 2022

The Complete 2021 Web Development Bootcamp (Dr. Angela Yu).

- Spent 66+ hours learning **full-stack web Developer** with just 1 course. HTML, CSS, Javascript, Node, React, and MongoDB.
- Developed skills in remote pair-programming using GitHub, industry-standard gitflow, and daily consistency in programming.

Fundamentals of Backend Communication and Protocol (Hussein Nasser).

- Completed 17.5+ hours focused on backend communication design patterns, protocols, and proxying techniques.
- Developed a strong foundation in backend communication, understanding trade-offs and applications of core patterns and protocols.

Federal University Of Technology, Akure, Nigeria.

B.Engr., Computer Engineering.

- Community Contributor & Admin at the NACES (National Association of Computer Engineering Student) Ladies4Tech, dedicated to educating and introducing women in computer engineering to the tech industry and reducing gender bias.
- Active member of the Google Developer's Student Club, FUTA (GDSC), specializing in Artificial Intelligence and Backend Development.
- Active participant in the Akure Tech Hub community, attending meetups, and engaging in networking activities.
- COREN Student Member (NACES, FUTA Chapter), recognized by the Council for the Regulation of Engineering in Nigeria, certifying my student membership.