

# Desmond Edem

## Backend Engineer

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*Learn. Improve. Contribute...*

### Work Experience

2025

#### **Lead Backend Engineer (Volunteer)**, African Institute for AI LBG, Accra, Ghana

- Leading the development of a scalable backend architecture for an AI-driven platform, focusing on performance and reliability.
- Implementing best practices in API design and database management to support high traffic and data-intensive applications.
- Collaborating with cross-functional teams to integrate AI models and ensure seamless deployment of machine learning solutions.

Tools: *TypeScript, Node.js, PostgreSQL, Redis, Terraform, Azure, Docker, Retool.*

2021  
2024

#### **Backend Engineer**, STRV s.r.o, Prague, Czech

- Led technical discovery and architecture design for 6+ MVP projects, translating client visions into scalable solutions with average time-to-market of 8 months.
- Designed and implemented cost-effective backend infrastructures for US-based startups, reducing initial cloud costs by up to 40% while maintaining scalability.
- Architected database schemas and API structures that enabled seamless scaling from MVP to production, supporting 5x user growth without major refactoring.
- Progressed from collaborative development to independently leading technical discussions with clients and defining solution architectures.
- Established coding standards and review processes that reduced technical debt by 50% and improved maintainability across client projects.

Tools: *TypeScript, Node.js, PostgreSQL, MongoDB, Redis, AWS Elastic Beanstalk, Heroku.*

2020  
2021

#### **Backend Developer**, Pettysave Limited, Lagos State, Nigeria

- Assisted in developing server-based Node.js software by providing inputs and insights.
- Improved peer review process by automating Pull Requests deployment and enhancing work collaboration between different stakeholders.
- Increased customer retention by 27% by implementing email marketing automation across user journey, using Sendgrid.
- Collaborated together with the product and marketing team to implement product-led growth strategies like in-app reward systems, gamification and social features.

Tools: *JavaScript, Node.js, Adonis.js, GraphQL, MySQL, Heroku.*

2020  
2020

#### **Fullstack Developer**, Nester Global Solution Services, Lagos State, Nigeria

- Maintained, reviewed and developed the firm's enterprise and web .
- Involved with application management and monitoring.
- Deployed solutions on Microsoft Azure and setting up cron jobs.

Tools: *JavaScript, Node.js, Vue.js, MongoDB, Microsoft Azure.*

2019

### Backend Developer (Intern), *DevCareers*, Lagos State, Nigeria

Worked closely with a team of nine developers to build web applications for the organization. My responsibilities during this period was:

- Designed and configured a fully automated CI/CD lifecycle resulting in faster development time.
- Implementing API endpoints for the Frontend team to work with.

Tools: *JavaScript, Node.js, PostgreSQL, Heroku.*

2018  
2019

### Software Developer (Intern), *Andela Nigeria*, Lagos State, Nigeria

I was part of an AGILE team composed of a Product Owner, Project Manager, Technical Team Lead and five engineers tasked with building REST API endpoints for a travel agency web application using NodeJS, Sequelize, and PostgreSQL.

Tools: *JavaScript, Node.js, HTML/CSS, PostgreSQL, Heroku.*

## Technical Skills

Languages TypeScript, Python,  $\LaTeX$ , Ruby

Tools Docker, CI/CD, IaCs (AWS, Azure, GCP, Heroku), SQL Databases, NoSQL Databases

Architecture API Design (REST/GraphQL), Database Design, Event-Driven Systems, LLM Integrations

## Other Volunteer Experience

2025

### Backend Engineer, *African Institute for Artificial Intelligence LBG*, Accra, Ghana

The African Association for the Advancement of Artificial Intelligence (4AI) is a visionary organization dedicated to advancing AI knowledge and application across Africa.

2022  
2024

### Mentor, *DevCareer*, Lagos, Nigeria

DevCareer is a Non-Profit organization that is focused on supporting upcoming developers with resources to excel into world class.

2019  
2020

### Programming Tutor, *CodeLagos*, Lagos, Nigeria

CodeLagos is an initiative of the Lagos State Ministry of Education aimed at making coding education accessible to Lagos State residents.