

Chinedu Duru

PROFILE: An expert NodeJs/JavaScript Engineer to build complex web applications with React, NextJs, AWS, MONGODB, and MySQL. Proficient in both backend and frontend with extensive knowledge in cloud deployment with Linux based systems.

EDUCATION

LOCATION	DATE	ACHIEVEMENT	GRADE
University of Cape Town Rondebosch Cape Town South Africa 7701	September 2018 – September 2020	PhD. Electrical Engineering	Performed two years of studies before exiting program
University of Portsmouth Hambrook Street Southsea UK PO5 3BS	September 2010 – September 2011	MSc. Communication Network Planning and Management	Merit
University of Manchester 316 Oxford Road Manchester UK M13 9WJ	September 2007 – September 2008	MSc. Communication Engineering	Distinction
The Ohio State University Enarson Hall 154 W 12th Avenue Columbus Ohio 43210 USA	September 2000 – December 2005	BSc. Electrical and Computer Engineering	2 :1 degree
The International Community School of Abidjan (ICSA) Abidjan Cote d'Ivoire	September 1998 – June 2000	IT Physics Calculus (Maths) English Language English Literature	A B A A A

WORK & PROJECT EXPERIENCE

2022-2023 **uPower**, Huddersfield, UK
FullStack Developer

- Worked in a team of 5 to develop company's Energy Management System (EMS).
- Role focused on building dashboard to incorporate IoT energy monitoring devices deployed at customer's site.
- Came up with novel approach to remotely configure and control IoT devices from HQs web app. Approach offered a unique solution to a deployment problem and established a more efficient and robust EMS application.
- Novel approach was built with MERN stack technologies, AWS and python.

- Built server for application to reside in. Involved building Nginx Web Server and configuring a firewall for added security. Applied port forwarding on router for application to be accessible on the internet.

2021-2022

uRoutine, Manchester, UK

Freelancer-Full Stack MERN Developer

- Worked with an entrepreneur to build a social media platform.
- Built app with MERN Stack technologies.
- Created and established the models for the MongoDB database from scratch.
- Used various algorithms built with JavaScript to showcase events such timestamps, notifications, follow requests, likes, comments, and other essential functions needed to make the app what it is.
- Used AWS S3 bucket to store images and videos of users.
- Worked entirely remotely with constant communication with entrepreneur through Zoom to make idea into reality.

2021-2022

Chrysalis, Manchester, UK

React Developer

- Part of a 4-man team to redesign company's finance app.
- Main role was to write APIs to fetch data from a SQL database and display the data with style at a react frontend.
- Involved in implementing middleware within the backend for security of routes and user authentication.
- Wrote functions to analyse and structure data from database to be passed to frontend.
- As a senior member of the team, role also involved mentorship of junior developers and deployment of the app at a secure Linux based server.
- Through my role, learnt a lot about docker deployment of a MERN stack app and firewall configurations within a Linux server for a more robust and secure system.

2020-2021

We Buy Broken Vans/VanStation, Birmingham, UK

Lead Software Developer

- Involved in the building and maintenance of www.webuybrokenvans.co.uk & www.vanstation.co.uk sites of organisation.
- Built frontend with NextJs and JavaScript along with CSS styling.
- Built backend with NodeJs/Express, MySQL, MongoDB, GraphQL and used multiple APIs to acquire and calculate useful info from the customer, i.e MapQuest, Vrm valuation.
- In backend, GraphQL was used to send customer's info to company's cloud-based platform, setup with Monday.com.
- Used MongoDB and MySQL to store data from Monday.com.
- With stored data, the ecommerce web app of vanstation was built with acquired data from webuybrokenvans.
- Through built database, was able to perform various analytics through constructed Machine Learning algorithms built with JavaScript to help increase sales.
- Site was a success and established additional revenue for the company, helping to sell vehicles by over 90%
- Worked entirely remotely with constant communication with the Project Manager and team-mates through Slack.

2018-2020

CadsNode. , Cape Town, South Africa

Full Stack Node js Engineer

- Creator of CadsNode, an online educational platform to teach students Machine Learning and Web Development. Please see application at <https://cadsnode.net/>
- Built frontend with React; and backend with NodeJs and Express.
- Used MYSQL and MONGODB as databases to capture user data and build lessons.
- Used AWS S3 for cloud storage of videos and images & Firebase for login and user authentication.
- Involved in designing and deploying app to the cloud for online viewing and interaction using Linux based systems and commands.
- Involved in maintaining and redesigning the app to fit customer experience.
- Put in over 2000-man hours in developing app. This included designing, deploying and redeploying, and maintenance.

SKILLS AND COMPETENCIES

- An expert coder in React, JavaScript and NodeJs to build complex applications.
- Proficient in database design and structuring with MYSQL and MONGODB.
- Extensive and in-depth knowledge of Web Services and Technologies i.e. AWS
- Strong knowledge in consuming APIs-REST/JSON.
- An expert Web Analytics Specialist with the unique ability to construct databases and perform operations such as aggregation, indexing and queries through JavaScript functions to make more use of stored data.
- Proficient in building web apps on both Linux and Windows based environments.
- Able to apply robust features for a more secure and reliable web application.
- Willing to learn new skills for self-development or for the benefit of an organization

CERTIFICATIONS

Machine Learning with Python: A Practical Introduction (Obtained Certificate): **IBM**

Developing Cloud Applications with Node.js and React (Obtained Certificate): **IBM**

References available on request