


# Israel Ikechukwu Nwangwu

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## ABOUT ME

A highly motivated Civil and Software Engineer dedicated to leveraging my skills to create sustainable solutions. My expertise spans across web, mobile, and desktop development, embedded systems design, and the Internet of Things (IoT), allowing me to approach challenges from a holistic perspective. With a solid foundation in Engineering, having earned top honors at the University of Nigeria, I have over two years of experience in the construction industry, where I have contributed to the effective management and delivery of construction projects. My passion for software development, coupled with over four years of experience in building user friendly applications, enables me to integrate technological solutions into real world problems.

## WORK EXPERIENCE

[ 01/2023 – Current ]

### Software Developer

#### *The Varic Project*

**City:** Enugu | **Country:** Nigeria | **Business or sector:** Education

- Collaborated with UI/UX designers and educators to create engaging, responsive and user-friendly interfaces using Next.js to ensure seamless user experiences.
- Optimized platform performance for scalability, ensuring reliable operation during high-traffic periods.
- Automated repetitive tasks through python scripts, reducing the time spent on manual work and improving time efficiency by over 15%.

[ 08/2024 – 07/2025 ]

### NYSC Corp Member

#### *Jos Metropolitan Development Board (JMDB)*

**City:** Plateau | **Country:** Nigeria | **Business or sector:** Urban planning and Development

- Assisted in basic data entry and documentation.
- Helped organize and prepare report for Head of Engineering Department.

[ 01/2022 – 08/2022 ]

### Renovation and Construction Supervisor (Undergraduate Industrial Training, IT)

#### *P-Valcon Designs and Construction Ltd*

**City:** Enugu | **Country:** Nigeria | **Business or sector:** Construction

- Coordinated with architects, engineers, clients and construction workers to ensure clear communication of project specifications.
- Oversaw the procurement of materials, tools, and equipment, ensuring timely availability for construction activities.
- Conducted inspections throughout various stages of construction to verify compliance with project plans and specifications.

[ 05/2020 – 02/2021 ]

### Web Developer and IT Support

#### *Apex Online Academy*

**Country:** Nigeria | **Business or sector:** Education

- Developed a responsive and user friendly CBT web app for an online academy
- Ensured the CBT website was always online and accessible to students and tutors.
- Created video guides on how to use the platform
- Prepared FAQs for technical issues during exams
- Managed server backups and restoring data if needed
- Assisted students who faced issues like login and password problems

## EDUCATION

[ 11/2017 – 07/2023 ]

### Bachelor of Engineering

*University of Nigeria*

**City:** Enugu | **Country:** Nigeria |

**Field(s) of study:** Civil Engineering | **Final grade:** 4.41/5.00

[ 2022 – 2023 ]

### Software Engineering

*Alx Holberton*

**City:** Nairobi | **Country:** Kenya |

**Final grade:** 89.57/100

## HONOURS AND AWARDS

[ 2016 ]

### Nigerian Mathematics and Sciences Olympiads Certificate of Merit

Awarding institution: National Mathematical Centre Nigeria

## SKILLS

### My Digital Skills

Microsoft Excel | HTML/CSS | Python | Javascript | Next/React js | Arduino | C++ |

App development: Flutter & Dart | MIT App inventor | TKinter (GUI) |

Javascript(Nodejs, ExpressJs) | Supabase | Firebase | Embedded Systems

### My Soft Skills

Time management | Teamwork | Problem solving

## EXTRACURRICULAR ACTIVITIES

[ 2022 – 2023 ]

### Engineering Projects

- Developed web tools for Civil Engineering calculations, including sieve analysis, beam span moments, footing design, and more

**Link:** <https://ug-project.vercel.app> | <https://cve-calculation.vercel.app>

- Prototyped a simple robotic system for playing musical instrument like the Piano and Drum automatically among other embedded systems projects

**Link:** [https://drive.google.com/drive/folders/18kjHraDNE35D0titDrXyvGHM7BVj4u\\_K](https://drive.google.com/drive/folders/18kjHraDNE35D0titDrXyvGHM7BVj4u_K)

[ 2023 ]

### Xendfinance Engineering Challenge

Contributed to the design of a Smart Meter system for monitoring electrical power usage in shared residences, utilizing multiple voltage sensors and a NodeMCU32 wifi module to send data to a Supabase database. The user interface was built using Next.js.

**Link:** <http://telectify.vercel.app>

[ 2023 ]

### Nigerian Data Protection Commission (NDPC) Code4Privacy Hackathon

Collaborated with a team to develop a browser extension that checks website cookie and privacy details, notifying users about sensitive data collection practices.

**Link:** <https://github.com/IsraelIyke/CInsight>

[ 2024 ]

### UPG Sustainability Leadership Program

Selected for an international program focused on the United Nations Sustainable Development Goals (SDGs). Received training in sustainable practices, leadership, and project management, with focus on Industry, Innovation, and Climate Action.

## RECOMMENDATIONS

**Engr Attama Chukwuka** Project Supervisor

Senior Lecturer, Department of Civil Engineering, University of Nigeria

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**Ogbodo Charles** Employer

Co Founder, The Varlc Project

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