ELIJAH DUMKENECHUKWU USIH

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SUMMARY STATEMENT

I am a Computer Engineering graduate of Covenant University and a results-driven Software Engineer with 4 years of experience building scalable, high-performance web applications using React, Next.js, Node.js, and TypeScript. Skilled in translating business requirements into elegant, efficient code while maintaining a strong focus on user experience, performance, and maintainability. Experienced at working in agile teams, integrating APIs, and deploying cloud-based solutions using Docker, Kubernetes, and CI/CD pipelines.I am passionate about solving real-world problems through technology and contributing to impactful digital products that power innovation.

SKILLS

- Programming Languages: Python, JavaScript, C++, Golang.
- Frameworks and Libraries used: NextJS, ReactJS, NestJS, Tailwind CSS, ExpressJS, FastAPI, Pytorch, Tensorflow, OpenCV, Langchain, Huggingface, Gin.
- Tools and Databases used: Git, Heroku, MongoDB, PostgreSQL, Redis, Docker, Kubernetes.

EDUCATION

- High School Diploma | Deeper Life High School – Nigeria | Graduation Date - December 2020
- B. Eng Computer Engineering | Covenant University – Nigeria | Expected Graduation Date - September 2025 | Current Grade Level: First Class | CGPA - 4.69/5.0

Relevant Coursework: Applied Computer Programming, Software Development Techniques, Networking Basics, Switching Basic and Intermediate Routing, Applications of Artificial Intelligence, Analog and Digital Electronics, Embedded System Design and Programming, Digital System Design with VHDL, Digital Signal Processing, Cryptography principles, Microprocessor Systems and Interfacing, Computer Networking and Security, Artificial Intelligence and its applications.

EXPERIENCES

- **INFORMATION TECHNOLOGY SUPPORT INTERN - VISTA INTERNATIONAL LIMITED, LAGOS, NIGERIA, APRIL 2024 - OCTOBER 2025**

  Key responsibilities included installing and configuring hardware and software, managing all user accounts, providing technical support through helpdesk and other ticketing systems, monitoring and maintaining computer systems and networks while performing routine updates, and ensuring systems are up-to-date.

- **STUDENT WORK EXPERIENCE PROGRAM, COVENANT UNIVERSITY, JULY 2022 - SEPTEMBER 2022**

  Key responsibilities involved collaboration with a team to design and model a automated food pulverizing machine as part of the experience program. Utilizing AutoCAD and Fusion 360 for 2D drafting and 3D mechanical component modeling. Participating in the concept development, material selection, and structural design of mechanical components. Applying engineering design principles to improve machine efficiency, ergonomics, and mechanical stability. Assisting in assembling and testing prototype components to validate design functionality. Documenting the design process, simulations, and technical specifications for presentation and reporting.

PROJECTS

- Engineered natural language processing models to automate sentiment analysis, streamlining the classification of customer reviews into positive and negative categories.
- Developed regression-based forecasting systems to analyze business trends and predict key performance indicators with high accuracy.
- Implemented robust classification algorithms to categorize complex business datasets, supporting data-driven strategic decisions.
- Designed an association rule learning–based recommendation engine to suggest supermarket products from purchase history patterns.
- Executed clustering models to segment customers into targeted groups, optimizing marketing campaign effectiveness.
- Built artificial neural network architectures to predict employee churn, enabling proactive retention strategies.
- Created recurrent neural network models to forecast stock prices using historical time-series data.
- Engineered deep learning recommendation systems leveraging Autoencoders and Boltzmann Machines for personalized content delivery.
- Trained convolutional neural networks to perform accurate image classification across multiple categories.
- Developed & deployed MaptyWeb, a responsive web application enabling users to track and plan fitness activities, boosting engagement and goal achievement.
- Constructed a YOLOv11-powered real-time traffic detection and tracking system to estimate density from live camera feeds.

LEADERSHIP ROLES

- Member of Technical Crew Association, Covenant University
- Assistant Senior Prefect, Deeper Life High School

CERTIFICATIONS AND COURSES TAKEN

- Python for Computer Vision with OpenCV and Deep Learning by Jose Portilla through Udemy
- TensorFlow 2.0 Deep Learning and Artificial Intelligence through Udemy
- Node.js, Express, MongoDB & More: The Complete Bootcamp by Jonas Schmedtmann through Udemy
- Machine Learning A-Z™: Hands-On Python & R in Data Science offered by the SuperDataScience Team through Udemy
- Deep Learning A-Z™: Hands-On Artificial Neural Networks offered by the SuperDataScience Team through Udemy
- The Complete JavaScript Course 2024 by Jonas Schmedtmann through Udemy
- The Ultimate React Course 2024: React, Next.js, Redux & More by Jonas Schmedtmann through Udemy
- Autodesk Certified User: AutoCAD, sponsored by AUTODESK