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GitHub: <https://github.com/ceejaysuny>

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Website: <https://chijiokeportfolio.vercel.app/>

Career Objective

Certified in Data Science, Software Development, Artificial Intelligence, and Cloud Native Technologies. A versatile IT professional with a strong technical background, driven by a passion for research and continuous learning to stay ahead of emerging technologies. An effective communicator with additional expertise in physical security management through AI-based video surveillance automation.

Core Competencies

- Data Science: Machine Learning, Deep Learning, Computer Vision, Data Mining, Statistical Analysis, Data Analytic
- Software Development: Python, Java, C, RUST, Dart, Flutter
- Web Development: Full-stack web development, HTML, CSS, PHP, Node.js, Django, React, JavaScript, SQL, MongoDB
- Physical Security: AI-based Video Surveillance Automation, Cloud-Based Surveillance Solutions, Contactless Facial Recognition
- Cloud Computing: Google Cloud, AWS Machine Learning
- IT Support: System Administration, Troubleshooting, Datacenter Management
- Business Development: Strategic Planning, Client Relations, Market Analysis
- Content Writing: Technical Documentation, Blogging, Copywriting

Technical Skills

- Prompt engineering skills
- Data Science & Analytics
- Proficient in Python, R, SQL, TensorFlow, PyTorch, Mediapipe
- Expert in machine learning models for prediction, summarization, translation, and generation of text/content
- Experience with statistical data analysis and visualization tools
- Mobile app development using Flutter and Dart
- Expertise in AI-based video surveillance automation and cloud-based surveillance solutions
- Knowledge of contactless facial recognition access control systems
- Active participant in data science competitions on Kaggle and DrivenData

Personal Projects

Project 1: Crop Monitoring System

Stage: Still in progress(currently researching for farm monitoring IoT sensors that can easily integrate with our app)

Objective:

Developed a web application that enables farmers to remotely monitor their crops, integrate real-time sensor data, weather forecasts, pest detection, and crop health analytics.

Link: https://github.com/ceejaysuny/crop_monitoring

Actions:

- Built the application using **Django, JavaScript, HTML, CSS**, and **APIs** for weather and sensor data integration.
- Implemented **GeoDjango** for precise field location tracking.
- Developed modules for **automated irrigation scheduling, fertilizer application tracking**, and pest detection using machine learning.
- Developed a notification system to alert farmers about crop health issues and environmental risks.

Result:

- Improved crop monitoring efficiency and decision-making for farmers.
- Enhanced early pest detection, minimizing crop damage.
- Enabled proactive crop management, reducing losses due to adverse conditions
- Reduced operational costs and increased crop yield through automation of irrigation and fertilization

Project 2: Crop Disease Detection Model

Stage: Completed**Objective:**

Develop a deep learning model to detect and classify 38 crop disease and healthy classes from images of crop leaves. The model also integrates a solution search mechanism for detected plant diseases.

Link: <https://www.kaggle.com/code/ceejayekjimbe/crop-disease-detection-model>

Actions:

- **Tools & Libraries:** TensorFlow, Keras, MobileNetV2, Matplotlib, NumPy, Pandas, Requests, IPython
- **Dataset:** PlantVillage dataset (downloaded via Kaggle)
- **Programming Language:** Python
- **Data Preprocessing:**
 - Data Augmentation (RandomRotation, RandomZoom, RandomContrast, RandomFlip)
 - Image Rescaling (1./127.5, offset=-1)
- **Model Architecture:**
 - Transfer Learning using MobileNetV2 (pretrained on ImageNet)
 - GlobalAveragePooling2D layer
 - Fully connected layers (512 units with ReLU, Dropout 0.5)
 - Output layer (38 classes, Softmax activation)
- **Optimization:**
 - Adam Optimizer (Learning rate: 1e-3)
 - Loss function: Categorical Crossentropy

- Metrics: Accuracy, Precision, Recall
- **Training Strategy:**
 - 6 epochs
 - Training-validation split (80%-20%)
 - Callbacks: EarlyStopping, ModelCheckpoint, ReduceLROnPlateau
- **Evaluation Metrics:**
 - Test Accuracy: **92.63%**
 - Test Precision: **94.51%**
 - Test Recall: **91.21%**

Result:

- Successfully trained a deep learning model that detects and classifies crop diseases with high accuracy.
- Achieved optimized performance using transfer learning with MobileNetV2.
- Integrated data augmentation and callbacks to enhance model generalization.
- The model provides insights into plant diseases and assists in searching for solutions.

Project 3: Deep Learning for Computer Vision Project

Stage: Completed

Objective: Our goal is to build a model that can identify wildlife in photos taken by automated surveillance systems, also called "camera traps."

Link: https://github.com/ceejaysuny/Animal_classes_detection

Project 4: TeleMed - A Comprehensive Telemedicine Platform

Stage: Completed

Objective:

Developed a full-stack telemedicine platform to connect patients with healthcare providers, enabling secure online consultations, appointment booking, and location-based health center discovery.

Link: https://github.com/ceejaysuny/telemedicine_APP

Actions:

- Built the frontend using **HTML, CSS, and JavaScript** with a responsive design.
- Developed the backend with **Node.js, Express, and MySQL**, implementing REST APIs for user authentication, patient management, doctor scheduling, and appointment booking.
- Integrated **Google Maps API** for health center location services.
- Secured user data using **JWT authentication, HTTPS, and data encryption**.

Result:

- Enhanced healthcare accessibility with a seamless booking system.
- Improved efficiency in patient-doctor interactions through automated scheduling.
- Provided a scalable and user-friendly platform adhering to healthcare security standards.

Project 5: Product Recommendation System for Amazon

"All_Beauty" Category

Stage: Completed**Objective:**

Developed a recommendation engine to enhance product discovery in the "All_Beauty" category using customer reviews and metadata.

Link: https://github.com/ceejaysuny/Product_recommendation

Actions:

- Implemented **collaborative filtering** using user-item interactions.
- Developed **content-based filtering** with metadata features (e.g., product descriptions, categories).
- Combined both approaches into a **hybrid recommendation system** for improved accuracy.
- Used **Python, Pandas, NumPy, Scikit-learn, Flask, and TensorFlow** for data processing, model training, and API deployment.

Result:

- Improved recommendation accuracy and personalization for beauty products.

- Optimized user engagement by suggesting relevant products based on behavior and preferences.
- Deployed an API to deliver real-time recommendations for potential integration into e-commerce platforms.

Project 6: Weather App

Stage: Completed

Objective:

Developed a simple weather application using Django and WeatherAPI.com to provide real-time weather updates for any city.

Link: https://github.com/ceejaysuny/Weather_App

Actions:

- Built the backend using **Django** to fetch and process weather data.
- Integrated **WeatherAPI.com** for retrieving live weather information.
- Designed a user-friendly interface with **HTML, CSS, and Python**.
- Implemented an input field for city search and displayed temperature, weather conditions, and icons dynamically.

Result:

- Provided users with quick and accurate weather updates.
- Enhanced user experience with a clean and responsive UI.
- Successfully deployed and made available for real-time weather queries.

Professional Experience 1

Job Title: General Manager

Company : Rotakin Consult Ltd (Subsidiary of Kontz Group Ltd), <https://rotakinconsult.net/>

Location: Lagos State Nigeria

Services: IT solutions, Systems Integration, AI based video surveillance automation, Software solutions, Physical security solutions consultations.

Dates: February 2020 – Current

Key Achievement:

- Increased sales by 50% by managing and empowering my team to identify and deliver effective solutions tailored to our customer applications, ensuring high satisfaction rates.

Key Skill Demonstrated:

- **Technical Leadership:** Directed the end-to-end implementation, development of various software solutions, AI-driven video management solutions, providing technical support for installation, configuration, and optimization of systems.
- **Client-Focused IT Support:** Delivered robust IT support and technical consultation, ensuring smooth deployment and integration of software and hardware solutions tailored to unique client requirements.
- **Team Empowerment & Project Management:** Mentored and led a multidisciplinary technical team, fostering a culture of innovation and accountability while managing multiple concurrent projects under tight deadlines.
- **Strategic Planning & Solution Delivery:** Collaborated with executive leadership and clients to align technology solutions with business goals, leveraging market insights to develop scalable, future-ready systems.

Professional Experience 2

Job Title: Business Development Manager & Data Analytics

Foreign Company : vCloud.ai. (<https://www.vcloud.ai/>)

Services: Comprehensive software solution for managing video surveillance systems (VMS). AI Video Analytics Platform and Video Surveillance as a Service (VSaaS)

Location: Remote Job (Coverage, West Africa)

Dates: February 2022 – Present

Key Achievement:

- Enhanced cloud video surveillance offerings by leveraging BI and data analysis techniques, driving product innovation and service quality improvements.
- Utilized predictive modeling and data mining to forecast video surveillance trends, enabling proactive strategy adjustments and maintaining a competitive market edge.

- Increased regional sales by 80% by leveraging my years of business development experience.

Key Skill Demonstrated:

- Developed interactive dashboards using Power BI to transform complex video analytics data into actionable insights, improving strategic decision-making.
- IT support, technical support for both installation and configuration of AI based video management software

Professional Experience 3

Job Title: Business Development Manager & IT Support

Foreign Company: Hanwha Vision (<https://www.hanwhavision.com/en/>)

Services: Surveillance Camera Manufacturer, Software Development

Location: Remote Job (Coverage, Nigeria and Ghana)

Dates: March 2023 – November 2024

Key Achievement:

- Designed and implemented solution architectures for customer projects, resulting in a 25% increase in client satisfaction by addressing specific business challenges.
- Successfully deployed surveillance systems across multiple sites in Nigeria and Ghana, ensuring optimal IT infrastructure and bandwidth utilization, which reduced implementation time by 20%.

Key Skill Demonstrated:

- Provided end-to-end technical solutions, including systems integration and configuration, enhancing operational efficiency for clients in West Africa.

Professional Experience 4

Job Title: Regional Business Development Manager

Foreign Company : AxxonSoft (<https://www.axxonsoft.com/>)

Services: A software development company that offers video management software (VMS), physical security information management platform (PSIM), cloud solutions (VSaaS).

Dates: June 2018 – January 2022

Key Achievement:

- Increased regional sales by 25% over three years by identifying and delivering optimal solutions tailored to customer applications, ensuring high satisfaction rates.
- Led training sessions for partners and customers, enhancing their technical and sales capabilities, which contributed to a 30% growth in partner-driven revenue.

Key Skill Demonstrated:

- Developed and delivered technically accurate and commercially verified quotations, ensuring timely delivery of the best all-round solutions to meet customer application and operational needs.
- IT support, technical support, installation, configuration of VMS

Education

Bachelor of Science in Computer Science

University of the People | Pasadena, CA, USA

Honors/Awards: Dean's List, GPA 3.43

Graduated: August 2024

Applied AI Lab

WorldQuant University | New Orleans, LA, USA

(Online Program)

Applied Data Science Lab

WorldQuant University | New Orleans, LA, USA

(Online Program)

High School Diploma

Community High School Adazi, Anambra State, Nigeria

West Africa Examination Council (WAEC) & National Examination Council (NECO)

Training, Certifications & Professional Development

- Applied AI lab. World Quant University
- IBM SkillsBuild, Artificial Intelligence Fundamentals
- Power Learn Project scholarship: Software Development and Entrepreneurship
- Kaggle Data Science Certification: Machine Learning, Deep Learning, Computer Vision
- Google Cloud Big Data and Machine Learning Fundamentals
- AWS Machine Learning Scholarship (Udacity)
- SUSE Cloud Native Foundations Scholarship (Udacity)
- Hanwha Vision Solutions Technical Training: AI-based Video Surveillance Automation, Cloud-Based Surveillance
- AxxonSoft Training: Advanced Physical Security Consolidation and Management
- ATEN Datacenter Management Training: Energy Efficient Management, Cooling Systems, IT Infrastructure Consolidation

Hobbies

- Reading Books
- Going to the Gym
- Listening to Music