CHIEDOZIE DEREK ANOZIE

anoziederek@gmail.com | https://chiedoziederekanozie.netlify.app/ | www.linkedin.com/in/chiedozieanozie

EXPERIENCE

GOLDMAN SACHS Dallas, Texas

Software Engineer Intern June 2025 – August 2025

- Built a Streamlit-based web application to automate analyst workflows, reducing processing time and improving efficiency.
- Developed secure Python REST APIs enabling seamless interaction with internal frameworks through an intuitive UI.
- Implemented a secure database with read/write capabilities to store and analyze usage history for audit and optimization.
- Integrated user authentication and role-based access control using firm-specific libraries to enforce security policies.
- Optimized performance by implementing caching and scalable architecture patterns to handle future data and traffic growth.
- Utilized GitLab for version control, collaborative reviews, and CI/CD pipeline alignment with enterprise standards.
- Implemented automated, consistent deployment pipelines through Infrastructure-as-Code managed by Conduit for reliability.

FORWARD EDGE AI San Antonio, Texas

Engineering Intern February 2025 – May 2025

- Designed and developed a custom PCB to support a spectrometer system, integrating power/data, camera and control circuitry.
- Implemented efficient power regulation, optimizing performance for sensor interfacing and embedded AI applications
- Collaborated with cross-functional engineering teams, contributing to the system design of an AI-powered embedded platform

BARRY-WEHMILLER DESIGN GROUP San Antonio, Texas

Engineering Intern May 2024 – August 2024

- Led the development of a simulation lab for Automation and Integration projects, focusing on software integration and testing.
- Developed and integrated a camera system at a truck assembly plant, writing C code for device communication and control logic.
- Designed and implemented a state machine that managed cameras functionalities and improved the systems reliability.
- Collaborated with a cross-functional team to integrate cameras into a plant, increasing accuracy.

PROJECTS

TAX OPTIMIZER 2026

- Designed a full-stack tax optimization platform in Next.js with modular architecture and Zustand state management.
- Engineered a programmatic Tax Calculation Engine orchestrating IRS rule for income, adjustments, and credits.
- Built responsive dashboards with Recharts and conversational navigation flows for real-time financial metric visualization.
- Containerized the application using multi-stage Docker builds and deployed to AWS App Runner via Amazon ECR.
- Implemented CI/CD pipelines using GitHub Actions for automated linting, testing, and rolling deployments.

FITNESS BAND & MOBILE APP 2025

- Designed a mobile app for a fitness band in React Native with modular architecture, supporting scalability.
- Implemented communication workflows using nRF Connect (Windows) to scan, connect, and subscribe to device characteristics, and used react-native-ble-plx (Expo/Bare) to monitor and stream real-time health values directly into the app.
- Built responsive dashboards and navigation flows with animated icons and progress rings for health metric visualization.
- Programmed and integrated biomedical sensors with the microcontroller, optimizing sampling rates and ensuring stable outputs.

VISION INSPECTION MODEL 2024

- Designed a versatile visual recognition model capable of training on datasets such as facial features or objects for classification.
- Originated as a real-time facial emotion detection system with live feature overlays and predicted labels for each detected subject.
- Built a modular training pipeline using Python libraries - OpenCV, MediaPipe, NumPy, and scikit-learn for rapid retraining.
- Enabled low-latency inference by integrating camera streams into real-time pre-processing and prediction workflow.
- Adaptable with varying use cases including accessibility tools, automated quality control, and interactive AI systems.

EDUCATION

University of Texas at San Antonio - *Cumulative GPA: 3.87* San Antonio, TX

Major: Bachelor of Engineering, Computer Engineering

Technical Skills: Python, JavaScript, TypeScript, C/C++, Go, SQL, HTML/CSS, RESTful API, Git, Agile, CI/CD .

Tools/Frameworks: React,Next.JS AWS, PostgreSQL, Flask, Django, GitHub Actions, Docker.

Professional Affiliations: NSBE (Executive), ColorStack (Member), ACM/Coding in Color (Member)