

WILFRED CHUKWU

SOFTWARE ENGINEER

Email: Wilfredchukwu1@gmail.com

Portfolio: <https://thefredcode.com>

Github: <https://github.com/fredcodee>

Software engineer based in the Philippines with over 8 years of experience.
I specialize in backend systems, API design, maintenance & integration, database architecture and management.

EXPERIENCE

2022 – 2024

SOFTWARE ENGINEER (REMOTE)

INVIX | *AI Start-up Company for building infrastructure, optimization, and design*

- Collaborated with senior developers to implement best practices and advanced techniques, enhancing backend efficiency. This contributed to faster feature delivery, strengthening INVIX's market competitiveness.
- Built, deployed and managed a detection analysis & visual presentation web app from the scratch with the raw data and results from the machine learning engineers, which is currently live and in use by the company utilizing Nextjs, TypeScript, ReactJs and NodeJs as the project stack.
- Integrated Keycloak to manage user authentication and authorization across invix distributed systems
- Designed and implemented APIs and backend systems using TypeScript, ReactJs and NodeJs for an AI-driven app, achieving 95% accuracy in defect detection. This solution attracted major clients and contributed to a 25% revenue increase.
- Maintained MongoDB-based database architecture to optimize data storage and retrieval. Reduced downtime and errors by 35%, improving user experience and reinforcing INVIX's reputation for high-performance solutions.
- Effectively worked with international teams across time zones (china & us), ensuring smooth communication and project alignment. This contributed to timely project completions and allowed INVIX to meet critical deadlines.
- Maintained and refactored the backend codebase which was mainly in Nodejs, creating a more organized structure that improved frontend developer workflow
- Created clear and efficient APIs to facilitate seamless communication between the backend and frontend systems. Additionally, authored comprehensive documentation to support frontend engineers, ensuring smooth integration and faster development cycles.
- Integrated Three.js into a visual project to deliver dynamic and interactive 3D visualizations. Designed and implemented the backend architecture to handle data processing and serve assets efficiently, ensuring seamless integration and smooth user experiences.
- Managed and maintained cloud storage systems, ensuring optimal performance and cost-efficiency. Successfully handled over 7,000 images by implementing effective storage organization, lifecycle management, and access control policies, improving retrieval speed and reducing storage overhead.

2019 – 2022

SOFTWARE ENGINEER (REMOTE)

TargetHunt | *Data Extraction Company*

- Designed and implemented efficient data processing algorithms, reducing memory usage and processing time. This allowed TargetHunt to scale operations without extra infrastructure costs, increasing data extraction capacity and driving a 20% boost in client acquisition and retention.
- Maintained PostgreSQL-based database architecture to optimize data storage and retrieval
- Collaborated with developers to build reliable API services using Django Rest Framework, forming the core of our data extraction platform. This improved system reliability and minimized downtime.
- Developed automation scripts in Python to streamline manual tasks within the detection sequence, improving efficiency and accuracy. Additionally, managed deployment processes on AWS for seamless operations.
- Led the development of browser automation with Selenium, integrating it into backend systems. This reduced manual effort, sped up data collection, and expanded data source variety, allowing TargetHunt to enter new markets and boost revenue streams.
- Designed and implemented secure payment integration, resulting in a 15% rise in successful transactions and higher subscription renewals. This process reinforced TargetHunt's revenue model by ensuring consistent cash flow.

2017 – 2019

BACKEND DEVELOPER (REMOTE)

Freelancing gigs (Clients ranging from Us, Canada, Germany)

- Delivered tailored API solutions for clients in e-commerce, healthcare, and logistics, ensuring seamless integration with third-party services and reducing operational bottlenecks
- Mastered new programming languages and frameworks like Nodejs, typescript etc. , and third party tools on short notice to meet client-specific requirements, ensuring projects were delivered on time with cutting-edge solutions
- Implemented product enhancements based on client feedback, ensuring timely delivery without sacrificing quality. This increased user satisfaction, leading to a rise in engagement and reduced churn
- Worked on a project contract where I Optimized the CRM software by identifying and resolving critical bugs, resulting in a 50% improvement in efficiency and overall system performance.
- Gained valuable experience in client communication, focusing on understanding their needs, setting clear expectations, and providing regular updates to maintain transparency. Developed strong time management skills to prioritize tasks effectively and ensure timely delivery of projects, fostering trust and long-term client relationships.

SKILLS

- ❖ Node.js, TypeScript, Django, Flask, React.js, HTML & CSS
- ❖ MongoDB, PostgreSQL, SQL
- ❖ Docker, AWS, Git

EDUCATION

Bachelor of Science in Computer Science
VMUF, Philippines