







# ISAAC EMMANUEL

## Full Stack Developer & Security Researcher

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## Professional Summary

I'm a **full stack developer** with up to eleven years freelance experience in web development and seven years' experience building smart contracts. I started building websites in 2014 with WordPress, then went on to start building with PHP which has, in fact, become my gateway to every other skill I learnt over time. I got into blockchain in 2017, and once I got a hang of the space, I learnt to write solidity and typescript. Ever since, I have been involved in the development of more than 100 websites (either as the sole developer, or a member of the development team) and built a little over 17 live smart contracts. Additionally, I have about eight years of experience in offensive security, successfully delivering 126+ freelance projects spanning smart contracts, websites, bots, automation and safety-critical software. I also have serious interest in AI/ML, and quantitative development with a proven track record of leading a technical team and working with other developers.

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## Technical Skills

**Programming Languages:** TypeScript, C, Python, PHP, Elixir, Rust

**Frontend:** React, Vue.js, HTML5, CSS3, Tailwind CSS

**Backend:** Node.js, Express, Laravel, Python Flask/Django

**Databases:** MySQL, PostgreSQL, MongoDB, Redis

**Cloud & DevOps:** AWS, Docker, CI/CD, Git, Google Cloud

**Blockchain:** Ethereum, Solidity, Nethereum, Smart Contracts, IPFS

**Security:** Penetration Testing, Bug Bounty Programs, Cybersecurity Assessment

**Machine Learning:** TensorFlow, PyTorch, Image Classification, AI/ML

**Tools:** Visual Studio, IntelliJ, Git, Postman, Burp Suite, Wireshark

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## Work Experience

### Founder & Full Stack Developer

**Nsisong Labs** | *September 2016 - Present*

- Overtime, I've managed up to 13 developers to build and maintain 90+ projects
- Developed full-stack applications using modern technologies and frameworks
- Conducted security assessments and provided technical consulting
- Implemented CI/CD pipelines and deployment strategies
- Led code reviews and maintained coding standards across client projects

### Junior Implementation Specialist (Campus - SSI)

**ESET Internet Security (SSI)** | *May 2018 - September 2018*

- I was actively involved in the Secure School Initiative project for tertiary institutions in Abeokuta
- I implemented lightweight cybersecurity solutions and security awareness programs for FUNAAB ICT, and FCE.
- I also did security assessments and vulnerability audits of the IT and network infrastructure of the schools involved.

### IT Administrator

**RCCG** | *September 2012 - February 2018*

- Managed IT infrastructure and network systems for the church along with the media and engineering unit.
- Being a member of the media unit, I was involved in the development and maintenance of the church website for some of the Apapa Family Zonal headquarters.
- Implemented security measures for data protection and access control for CRM
- Planned and implemented media projects for some newly opened Apapa family parishes alongside our Regional Media director and was involved in some of the multimedia content production.

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## Some personal projects I enjoyed working on:

### Web Applications

- **NotePad Web** – Wanted to make an online note for myself. [See GitHub](#)
- **1cbyc Web Scraper** - Web scraping utility for data extraction with web ui. [See GitHub](#).

## API & Backend

- **API-Auth** – Ready to use API authentication system for secure user and service access. [See GitHub](#).
- **NextJS Blog API** - Ready to use RESTful API backend for a Next.js blog platform. [See GitHub](#).

## Blockchain & Web3

- **EVM Auto Transfer Bot** - Automated transfer bot for EVM-compatible blockchains. [See GitHub](#).
- **Web3 Secure Audit** – Vulnerability assessment and auditing tool for smart contracts. [See GitHub](#)

## Machine Learning & AI

- **Pneumonia Image Identifier** - Developed image classification model for disease detection from X-rays using TensorFlow. [See GitHub](#).
- **Neural Network Go** - Neural network implementation in Go lang for educational and experimental purposes. [See GitHub](#).

## Compilers & Interpreter

- **Expression Evaluator** - Mathematical expression parser and evaluator I wrote in Common Lisp. [See GitHub](#)
- **BF Interpreter** – Brainfuck language Interpreter I wrote because it looked like Lisp. [Check GitHub](#).
- **Rust Compiler** – Experimental compiler project I wrote in C for 8 months. [See GitHub](#)

## Utilities & Tools

- **Network Analyzer** - Custom tool for capturing and analyzing network packets and network traffic. [See GitHub](#).
- **BMI Calculator** - Fast Calculation Tool for lazy medics. [See GitHub](#).
- **File Encryptor** – Fully custom file encryption tool I wrote in C. [See GitHub](#).
- **Deriv mt5 Bot** – Faster trade management for Deriv/Synthetic traders. [See GitHub](#)

## Developer Tools

- **Graph Drawing Method** - C++ implementation of graph visualization algorithms. [See GitHub](#)
- **HTTP Load Balancer (for Servers)** - Full grade HTTP load balancer I wrote in Rust for high performance. [Check GitHub](#)

## Security Tools

- **Offensive Security Payloads** - Collection of penetration testing tools and techniques. [See GitHub](#).
  - **Encrypted P2P Messaging** – Fully custom no packet messaging protocol for privacy. [See GitHub](#)
  - **CLI Domain Verifier** - Tool for verifying domain ownership and configuration. [See GitHub](#)
  - **Bad Actors Database** - Community-driven repository tracking cybersecurity threats in Africa. [See GitHub](#).
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## Open Source Contributions

- **80+ public repositories** on GitHub with active development
  - Created educational resources for cybersecurity learning and published 314 leetcode solutions at some point. [See my Leetcode](#).
  - Contributed to major projects like Nethereum and some Laravel ecosystem tools
  - Maintained multiple indie developer tools and VS Code extensions too
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## Education & Certifications

### Mathematics and Computer Science

*NOUN - 2022*

### Pasture and Range Management

*FUNAAB - 2017*

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## Professional Achievements

- **120+ Freelance Projects** successfully delivered across web development, blockchain development, automation engineering, bot development, offensive security and safety critical engineering.
  - **90+ Projects** managed and maintained as lead developer at Nsisong Labs
  - **Active Security Researcher** with expertise in penetration testing
  - **Blockchain Developer** with hands-on smart contract experience
  - **Open Source Contributor** with significant community impact
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## Current Side Quest

Exploring my interest in **Quantitative Development** as I've been building expertise in algorithmic trading systems, financial modeling and analysis and risk management systems

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## Languages

- **English** (Fluent)
  - **Efik/Ibibio**(Native)
  - **Yoruba** (Fluent)
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## References

Available upon request. Portfolio and code samples available at [github.com/1cbyc](https://github.com/1cbyc)