

Jahswill Onuegbu

Software Engineer | Full-Stack Development | AI Integration

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Portfolio | jahswill.vercel.app

Professional Summary

Software Engineer with 5+ years of experience building scalable SaaS products, cloud-native platforms, and production-ready Web2 and Web3 solutions. Specializes in Python, JavaScript, AI agent development, ML engineering, and LLM and blockchain integrations. Proven track record of optimizing full-stack systems, leading teams, and delivering production-ready solutions through Agile and DevOps practices across AWS, Microsoft Azure, and GCP. Passionate about building AI-powered SaaS with LLMs and serverless technologies.

Technical Skills

Languages & Frameworks: C, JavaScript, TypeScript, Python, PHP, React.js, Next.js, Node.js, Express.js, FastAPI, Laravel, Tailwind CSS

Cloud & DevOps: Docker, Kubernetes, AWS, Microsoft Azure, GCP, GitHub Actions, Jenkins, CI/CD, Linux

Databases & Storage: PostgreSQL, MySQL, MongoDB, Redis, SQLite, AWS S3

AI & ML: Large Language Models (LLMs), AI Agent Development, Natural Language Processing, DeepSeek, Gemini

APIs & Integration: RESTful APIs, GraphQL, API Gateway, OAuth, Webhook Integration, Microservices Architecture

Security & Testing: OWASP Principles, JWT Authentication, Pytest, Test Automation, Security Best Practices

Tools: Git, Postman, Docker Compose, Trello, Notion, GitHub Projects, Hugging Face, OpenAI API

Professional Experience

Coding Instructor

ESINED Group | Hybrid, Malta

2026

- Delivered structured coding instruction in hybrid formats, adapting lessons to varied skill levels.
- Designed hands-on exercises and guided projects that translated programming concepts into practical skills.
- Provided individualized code review, debugging support, assignment feedback, and technical mentoring.

Software Engineer (Freelance)

Ceemore Smart Luxury Estates | Remote

Jan 2026 - Mar 2026

- Led end-to-end delivery of a custom real estate platform from requirements through production.
- Built secure authentication and a role-based staff portal for analytics, listings, and site administration.
- Created workflows for multiple property projects, client records, inquiries, support, and follow-ups.
- Built scalable Node.js APIs and PostgreSQL models for high loads using Next.js/React/TypeScript/Tailwind CSS.
- Deployed to Microsoft Azure with GitHub Actions CI/CD and production release pipelines.
- Built analytics dashboards for listings, client activity, inquiries, and project performance.
- Delivered self-service content and support tools to speed client updates and reduce developer reliance.

Technical Lead & Senior Full-Stack Engineer

HackrPost - AI-Powered SaaS Platform | Remote

2025 - 2026

- Led the engineering team and owned end-to-end product architecture, delivery, and deployment.
- Built responsive UI/UX with Next.js, React, TypeScript, and Tailwind CSS.
- Architected Node.js, Express, and MongoDB services for content, analytics, and publishing.
- Integrated OpenAI and fine-tuned models using cleaned, structured, and validated training data.
- Corrected dataset imbalance and biased outputs to improve model consistency and relevance.
- Built X API scheduling and AI auto-posting with OAuth, BullMQ, Redis, and multiple workers.
- Deployed Docker services to Azure and GCP with CI/CD and unit, integration, and E2E tests.

AI & Software Engineer

AurifyAI - EdTech Platform | Remote, Nigeria

2024 - 2025

- Built a responsive Next.js interface for AI-generated study content, quizzes, and audio.
- Designed multi-stage AI and agentic pipelines for content generation and workflow orchestration.
- Integrated Gemini and Vertex AI on Google Cloud for scalable AI inference and automation.
- Implemented TTS and AI audio generation to support accessible, multimodal learning experiences.
- Designed FastAPI services and asynchronous processing architecture to support high-volume AI workloads.
- Implemented JWT authentication, AWS S3, and Celery/Redis processing for secure cloud workflows.
- Deployed Dockerized microservices with Kubernetes and GitHub Actions CI/CD pipelines.

AI Integration Specialist & Engineer

Gold Dust AI | Remote

2023 (6 months)

- Led the team delivering AI automation, integration, and workflow solutions for consulting clients.
- Designed AI workflows integrating OpenAI and LLM APIs with client applications and business systems.
- Connected forms, CRM, analytics, and third-party services through REST APIs and webhooks.
- Built a responsive Next.js and React website for an AI consulting company.
- Improved performance, SEO, accessibility, and lead capture with forms and analytics.
- Added validation, logging, monitoring, and error handling for reliable production automations.

Lead Frontend Engineer

PLPFactory - Design Marketplace | Remote, Nigeria

2022 - 2024

- Led frontend engineering for a design marketplace serving 3,000+ users and visitors.
- Designed and developed responsive marketplace interfaces with React and Redux.
- Built user flows for browsing, buying, selling, and managing digital design assets.
- Created reusable component systems and consistent UI patterns across the platform.
- Implemented Redux state management for sessions, marketplace data, and user interactions.
- Developed UI tests for components, critical workflows, and regression-prone features.
- Led frontend planning, code reviews, and delivery coordination with product and backend teams.

Programming Instructor & Community Mentor

Coderzwave - Online Coding Community | Remote

2022

- Taught programming to hundreds of students through structured live online coding classes.
- Designed practical lessons, coding exercises, and guided projects that made core concepts accessible.
- Mentored students through debugging, problem-solving, code reviews, and technical challenges.
- Led interactive community sessions, technical discussions, and question-and-answer workshops.
- Provided individualized feedback and learning guidance to strengthen students' coding confidence and skills.

Full-Stack Software Engineer & Business Systems

J.J Willmin | Hybrid, Nigeria

Jan 2021 - Dec 2022

- Built a custom web application for construction projects, clients, employees, and business operations.
- Built a custom CRM for capturing, managing, and following up on leads across the sales pipeline.
- Engineered a load-balanced architecture supporting thousands of requests per minute.
- Created client and employee workflows that centralized records and operational activities.
- Implemented visit and event tracking to measure user activity and advertising performance.
- Developed advertising workflows for lead generation, campaign tracking, and follow-up.
- Built responsive interfaces with React, jQuery, and Styled Components.

Key Projects

C Algorithms & Core Systems Engine

Harvard CS50 Coursework | Projects Implemented in C

- **Graph-Based Voting Algorithms:** Built Plurality and Tideman voting simulations in C, modeling ranked preferences as directed graphs and using recursive depth-first search to detect cycles before locking pairs, preventing invalid election outcomes.
- **High-Performance Spell-Checking Engine:** Developed CS50 Speller entirely in C, designing a custom in-memory hash table, hash function, and bucket-based lookup strategy to load large dictionaries and validate text efficiently.
- **Manual Memory Management & Performance:** Managed allocation and deallocation directly with malloc and free, optimized pointer-based data access, and eliminated memory leaks and invalid accesses through rigorous Valgrind analysis.
- **Cryptographic Text Tools:** Implemented Caesar and Vigenere ciphers in C using ASCII arithmetic, modular transformations, character validation, and command-line input handling while preserving letter case and non-alphabetic characters.

Education

International Diploma in Information Technology - Domain Academy (Malta)

Harvard University CS50: Introduction to Computer Science (*Ongoing*)

Certifications

Frontend Developer (React) Certificate - HackerRank

Software Engineer Certificate - HackerRank

The Complete Full-Stack Web Development Bootcamp - Udemy