CHIDIKE VINCENT

SOFTWARE ENGINEER · RESEARCHER · FOUNDER

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PROFILE

Software engineer, applied researcher and founder with an MSc in Computing (Distinction) from Sheffield Hallam University and a BEng in Electrical and Electronics Engineering. I started in 2021 designing websites on Wix, learned to code in 2023, and now build full-stack products and research systems for live UK organisations.

Lead author of the Best Paper at IoT 2025 in Vienna, first author of a paper presented at IEEE CIBCB 2026 in Athens, and first author of a paper accepted at IoT 2026. Co-founder of Teknoozu and The Frank Initiative LTD.

EXPERIENCE AT SHEFFIELD HALLAM UNIVERSITY, FROM JAN 2025

Full Stack Developer, Workplace Scientifics

Sep 2025 to present

Sheffield Hallam University · South Yorkshire Innovation Programme

- Sole engineer and designer of a multi-tenant web portal for a UK occupational hygiene company that supported 300+ businesses in 2025. Owned the work from architecture to deployment on Azure. In user testing.
- Built with ASP.NET Core, C#, React 18, TypeScript, PostgreSQL and Tailwind CSS, with tenant isolation at company and branch level and role-based access for admin and client users.
- Wrote a Python service (FastAPI, pdfplumber) that extracts structured data from uploaded PDF inspection reports, to replace an email-based report process with a searchable dashboard.

Full Stack Developer, Prompt Bnk (formerly AI Prompt Library)

Jun 2025 to Mar 2026

Mount Move Ltd · Sheffield Hallam University · South Yorkshire Innovation Programme

- Sole engineer on a live subscription SaaS for a UK startup: a curated library of AI prompts, with 150 prompts across 15 categories that I curated and rated myself.
- Built on ASP.NET Core (.NET 9), C#, React 18, TypeScript, PostgreSQL, SignalR and Serilog, with Azure DevOps CI/CD.
- At launch: 19 of 20 test tasks completed (95%), usability 84.5 out of 100, and 50+ subscribers.

Mobile App Developer, Simply Connect

May 2026 to present

Sheffield Hallam University · South Yorkshire Innovation Programme

- Building an iOS app in React Native and TypeScript that extends an existing live social prescribing web platform by consuming its backend APIs. In early development.
- Typed routes, separate authentication, onboarding and main flows, a custom tab bar, credentials held in the iOS Keychain, and TypeScript strict mode with zero errors.

Wix Velo Developer, Tables Stick

Apr 2026 to Jun 2026

Sheffield Hallam University · South Yorkshire Innovation Programme

- Rebuilt a UK primary school times-tables site into a product store with a school subscription model, protected video content, automated access codes issued and validated per school, and CPD booking.

RESEARCH

Research Developer, animal welfare monitoring, Heeley City Farm

Mar 2026 to present

Technical research lead · first author, IoT 2026, Newcastle (accepted)

- Sole developer of a five-enclosure Raspberry Pi 4B sensor network with on-device welfare classification, on-device person detection that deletes frames, a live public dashboard and a vision model comparison on 13,692 labelled images (best specialist MCC +0.732). Monitoring since July 2026, 88,000+ polling cycles. Flagged a heat stress concern in the poultry enclosure.

Research Developer, ECG-HRV mood detection

Mar to Jul 2026

First author · IEEE CIBCB 2026, Athens

- Built a privacy-preserving mood classification pipeline in Python, evaluated across three public datasets (74 participants). Class equalisation raised minority-class recall from 7.8% to 56.3% on DREAMER. Federated learning on a six-node Raspberry Pi 4 cluster came within 2.7 points of centralised training.

Research Developer, UAV edge intelligence

Jan to Aug 2025

Lead author · Best Paper Award, IoT 2025, Vienna

- Built the UAV and an onboard Raspberry Pi 4 pipeline (Python, YOLOv5n, OpenCV) that cut data from 906 MB to 32 MB and energy use by 77%. Best Paper from 72 submissions across 26 countries. ACM, DOI 10.1145/3770501.3770508.

EARLIER EXPERIENCE

Software Developer Intern, Traavu Limited *Jun 2024 to May 2025*

Birmingham, UK

- Worked alongside the Lead Software Developer on the company's core products during a placement year alongside the MSc.

Volunteer Frontend Developer, Sheffield Hallam University *Dec 2023 to Sep 2024*

- Built React interfaces and contributed to ERD and data-flow design for an internal attendance monitoring platform for lecturers.

Co-founder and Web Designer, Thirteen Eleven Studio *From 2021*

Formerly Thirteen Eleven Design and Technology · Nigeria

- Led client projects and managed design and delivery. Between 2021 and 2023, built 13+ client websites on Wix, without code.

FOUNDER AND COMMUNITY

Co-founder and Director of Technology, The Frank Initiative LTD *2026 to present*

Company No. 17411347 · Fund for Charity, fundforcharity.com

- Building Fund for Charity, a platform connecting donors, including the UK's Nigerian diaspora, with verified orphanages in Nigeria. Built and ready. Sole technical developer, covering architecture, full-stack development and payments.
- Clean architecture modular monolith on ASP.NET Core (.NET 10) with CQRS, PostgreSQL, React 18 and TypeScript, Auth0 role-based access for three user types, and a cross-border split payment through Flutterwave that settles the orphanage and the UK platform commission across two currencies in one donation.
- Docker, Azure, Azure Blob Storage and Redis for caching and rate limiting.

Co-founder and Technical Research Lead, Teknoozu *2024 to present*

Student technology community · teknoozu.org

- Three events with BCS South Yorkshire, Yorkshire DevOps and SHU, and 80+ students mentored: Cloud Challenge (2024), SmartPulse Hackathon (2025) and a quantum computing workshop and hackathon (2026).

TEACHING AND ACADEMIC LEADERSHIP

Cover Supervisor and Teaching Assistant, SAAF Education *Mar 2024 to Sep 2025*

- Supervised and supported secondary classes in Sheffield, with one-to-one and special educational needs support.

Computer Science Teacher, Handsworth Grange Community Sports College *2025*

- Taught computing to secondary pupils in Sheffield.

Judge, FutureTech Appathon, Sheffield Hallam University *30 Apr 2026*

- 21 contestants in six teams.

Course Representative and Student Ambassador, Sheffield Hallam University

- Gold, Silver and Bronze accreditation as Course Representative.

EDUCATION

MSc Computing, Distinction *Sep 2023 to Nov 2025*

Sheffield Hallam University

BEng Electrical and Electronics Engineering, 2:1 (Computer Engineering major) *2010 to 2016*

Federal University of Technology, Owerri, Nigeria

AWARDS AND RECOGNITION

- Best Paper Award, 15th International Conference on the Internet of Things, Vienna, 2025
- Campus Jobs Student Employee of the Year 2025, Sheffield Hallam University
- Sheffield Hallam University Gold, Silver and Bronze Recognition Awards
- Microsoft Innovative Educator · Google Certified Educator (Level 1) · Foundational C# with Microsoft

SKILLS

Languages: Python, C#, JavaScript, TypeScript, SQL, Velo (Wix)

Frameworks: ASP.NET Core, React 18, React Native (Expo), FastAPI, Node.js, Entity Framework Core, SignalR, Tailwind CSS, Framer Motion

AI and data: PyTorch, YOLO, OpenCV, Flower (federated learning), NeuroKit2, scikit-learn, pandas, NumPy

Infrastructure: Azure, Azure DevOps, Auth0, Docker, PostgreSQL, Redis, Supabase, Raspberry Pi 4

Design: Figma, Canva, Photoshop, Illustrator, Wix Studio