
MUHAMMED SHITTU

Full Stack Software Developer

Flat 19 Lovell House,
271 High Street, Uxbridge, London, UK.

+44 7541 540595

mshittu.work@gmail.com

Website: <https://mshittu.com>

GitHub: <https://github.com/devshittu>

Twitter: <https://twitter.com/@devshittu>

LinkedIn: <https://linkedin.com/in/muhammedshittu>

SKILLS

Operating Systems: UNIX, LINUX, MacOS and Windows.

Languages: PHP, Python, Javascript, Typescript, jQuery, bash-shell, Python.

Markups & Styling: HTML5, CSS3, XML, JSON, Line Delimited JSON (LDJ), SASS.

Frameworks: Laravel, Node, VueJS, Nuxt, React, Django, Flask, and Codeigniter.

Source code control: GIT

Container services: Docker.

Cloud Technologies: DigitalOcean, GCP & Amazon Web Services (AWS).

Web servers: NGINX, Apache.

Databases: SQL, MYSQL, Redis, NoSQL, Elasticsearch.

Testing tools: PHPUnit, Mocha & Chai, and Cypress.

SIDE PROJECTS

Flattenify - Open-Source CLI Tool for Codebase Consolidation - Open Source

Contributor

May 2025

Technologies: Python, CLI Development, pytest, GitHub Actions, PyPI Publishing, pre-commit (flake8, isort, black)

- Developed Flattenify, a Python CLI tool that flattens project files into a single file with descriptive paths, addressing the challenge of consolidating codebases for code reviews, AI analysis (e.g., ChatGPT, Grok), and documentation.
- Designed modular architecture with separate modules for configuration, file handling, logging, and output, ensuring maintainability and extensibility.
- Implemented support for Python, JavaScript, and TypeScript, with a plugin system to enable community contributions for additional languages (e.g., Java, Rust)
- Established robust CI/CD pipelines using GitHub Actions, achieving 100% test coverage across Python 3.8–3.10 with pytest, and resolved issues like naming conflicts and dependency mismatches.
- Published the tool on PyPI, making it accessible to developers worldwide, and wrote an engaging article to promote adoption.
- Fostered an open-source community by encouraging contributions via GitHub, aligning with collaborative development practices.
- Demonstrated problem-solving by addressing developer pain points, reducing manual consolidation time, and enhancing AI-driven workflows, directly relevant to user-centric software development.

EXPERIENCE

Engagement Tracker Project, Cygnet Healthcare Churchill, London UK

- Volunteer Full Stack Software Engineer

FEB 2025 - PRESENT

- Volunteer Full Stack Software Engineer (Engagement Tracker Project) | Mental Health Hospital, UK February 2025 – Present
- Architected and developed Engagement Tracker, a Next.js-based web application with Prisma and Supabase, enabling quantitative and qualitative insights into service user engagement for a UK mental health hospital.
- Collaborated with hospital management to identify system inefficiencies, designed an MVP, and iterated based on user feedback, achieving adoption across multiple wards within 3 months.
- Implemented features to track session attendance, declination rates, and staff performance, empowering data-driven decisions on resource allocation and training, reducing ineffective activities by 25%.
- Integrated real-time analytics dashboards using React and Recharts, improving decision-making speed by 40% for management.
- Conducted user research with staff and service users to refine UI/UX, increasing user satisfaction by 35% based on internal surveys.
- Demonstrated strict adherence to the GDPR compliance in the system developed and also created safe options to deploy securely.

Mental Health Hospital, UK February 2024 – Present - *Activity Coordinator*

FEB 2024 - PRESENT

- Coordinated activities for service users, identifying operational inefficiencies in engagement tracking processes.
- Proposed and prototyped a software solution (Engagement Tracker) to hospital management, leading to its adoption as a volunteer-developed system.
- Demonstrated initiative by leveraging software engineering skills to address real-world healthcare challenges.
- I have spearheaded and delivered on 3 concurrent big events successfully, facilitated for both staff and service user in the setting black history month, . whereby talking speaking negotiating better deal in between the vendors supplying the event needs and communicate back to the company. I have also made budgets and reasonable adjustments. I have scout for many third party contractors/vendors, sorted out for better options before presenting to the company.
- Consistently delivery on activities and engagements with service users and keeping to time even if the service user wants to spend more time outside but the company schedules needs to be strictly adhered to so the activities are ended with often negotiations if agreed flexible option offered.
- Time keeping and juggling so many activities, ensured no day is complete without, completing the tasks and this has been going on consistently.
- Managed challenging behaviours in different environment both internal and external activities some very challenging 11 service users outside of the hospital and still safely brought them back to the hospital. I have redirected/persuaded AWOL-ing service users back to the hospital saving some cost and promoting the hospital image

Hooli Technologies Nigeria Ltd. Kano, Nigeria - *Full Stack Software Engineer*

AUGUST 2021 - MARCH 2023

- Spearheaded agile development process by collaborating with the back-end team in sprint planning and retrospectives, resulting in an 18% increase in delivery rate.
- Revamped website flows and navigation menus using React router & Redux, reducing the frequency of misdirected customer service queries by 30% and increasing traffic to previously neglected pages.
- Engineered 90+ software test cases Cypress and introduced modern quality assurance (QA) procedures such as TDD, BDD and CI/CD as part of a defect prevention and quality control exercise on 5 legacy projects.
- Executed serverless deployment on AWS lambda, increasing deployment speed from 48 hours to 15 minutes while maintaining high availability at scale and reduced server cost by 47%.

- Enabled integration with existing codebase by setting up elasticsearch to enable real-time search functionality, resulting in a 40% increase in search speed and a 60% reduction in search queries that timed out.

Topalat Nigeria LTD, Remote- Full stack Web Developer

OCTOBER 2021 - MARCH 2022

- Implemented crash reporter and used results to fix three biggest causes of crashes, leading to a 45 percent reduction in customer support calls.
- Created HTML email templates in Laravel that improved email CTR rates by 65% for 23 weeks consecutively.
- Championed building and deploying a web application MVP a utility bills SaaS software using Nuxt.js which received 80K+ traffic in the first week of launch.
- Expanded the bill services by adding 25 new services across 5 providers and implemented automated testing framework that increased the monthly traffic by 40%.
- Analysed impact and effectiveness of in-app UI changes on customer retention, identified features of customer behaviour and recommended mobile-first approach; Doubled the user engagement rate.

YellowCard Financials, Remote - Front End Developer

JULY 2021 - OCTOBER 2021

- Developed product tours with Vue & Vuex for 4 new features, improving customer adoption by 25% that led to an augmentation of revenue by £350K.
- Tracked and reported software defects using bug-tracking tools and assisted with root cause analysis, resolved 75% of issues discovered.
- Launched new deposit and withdrawal options, that allowed customers the flexibility to trade 10 different cryptocurrencies seamlessly, increasing revenue by 70% annually.
- Collaborated with a team of 7 peers to integrate Paystack, Flutterwave and other payment APIs.
- Developed web scraping program in Python to help the firm download public data, including over 10,000 cryptocurrency market rates and stocks, enriching internal data and increasing research efficiency by over 50%.
- Configured and customised the YellowCard flagship back-end app built on Django for 2 new countries that allowed customers to trade regionally, increasing revenue by 70% annually.

EDUCATION

Bayero University, Kano - B.Sc. Computer Sci/Economics

JUNE 2014 - MARCH 2019

Graduated with First class honours - 4.58 CGPA.

CERTIFICATION

Artificial Intelligence Analyst 2020 - Mastery Award - IBM Skills Academy (Virtual)

AUGUST 2020

Issuer: IBM

STRENGTHS & ABILITIES

- Adhering to best practices and standards.
- Communicates in simple language.
- Proficient in Java, and Kotlin.
- Strong knowledge of Postgres, and Migrations
- Spun up web presence and solutions using WordPress and Drupal

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- Implemented SQL and NoSQL databases.
 - Uses Git and Github.
 - Practices SOLID and TDD.
 - Loves, travelling and exploring.
 - Familiarity with Gitflow and PEP 8