Melvin Mupondori, Full Stack Engineer

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LINKS

[GitHub](), [Portfolio]()

PROFILE

Senior Full-stack Engineer with 5+ years of experience building end-to-end web solutions across healthcare, e-sports, and enterprise sectors. Proficient across the entire technology stack: frontend (React, Vue.js, TypeScript), backend (Node.js, Laravel, GraphQL, RESTful APIs), and DevOps (Docker, Kubernetes, CI/CD). Architected scalable microservices handling 1M+ daily requests and optimized database performance achieving 75% faster read times. Experienced with modern web approaches including SSR, JAMstack architecture, and progressive web applications. Integrates machine learning capabilities into web applications using TensorFlow.js and Python-based ML services. Implements robust security practices, accessibility standards (WCAG), and real-time features (WebSockets) while leveraging cutting-edge tools like Next.js, Nuxt.js, and serverless functions alongside cloud platforms (AWS, GCP). Proven technical mentor who translates business requirements into robust technical solutions while elevating team capabilities.

EXPERIENCE

Nov 2022 — Present

Senior Full-stack Engineer, Community Dental Partners
Denton

Tech Stack: React, shadcn/ui, Redux, Node.js, Laravel, ASP.NET Core, AWS RDS, Lambda, Playwright

- Architected and led frontend development of an enterprise-grade intranet application managing the complete patient journey including scheduling, insurance verification, and billing systems using React and shadcn/ui
- Enhanced application performance by 50% through implementing advanced techniques including tree shaking, bundle size reduction, strategic caching (both browser and in-memory), and server-side rendering
- Designed and maintained 20+ internal healthcare applications handling practice management, synchronized data from distributed OpenDental instances to centralized AWS RDS infrastructure, processing TBs of data monthly
- Engineered microservices architecture integrating with external healthcare systems including Medicare, insurance providers, and SwellCX while building secure data pipelines
- Established robust CI/CD pipelines incorporating end-to-end testing with Playwright as part of the automated build process
- Mentored 3 junior developers through structured code reviews, pair programming sessions, and technical guidance, resulting in their promotion to mid-level roles

Aug 2022 — Oct 2022

Software Engineer, OperateBeyond
Grand Rapids

Tech Stack: Vue.js, NaiveUI, Laravel, Zend, Elasticsearch, Redis

- Optimized Elasticsearch implementation for multi-industry dealership platform through strategic tuning of indexing parameters, refined shard management, explicit data type mappings, and query optimization, reducing index times by 40% and search latency by 50%
- Developed a responsive dealership management system using Vue.js and NaiveUI that integrated with diverse legacy Dealer Management Systems across powersports, marine, and RV industries
- Created a fault-tolerant inventory data ingestion and syndication system capable of normalizing disparate data formats from hundreds of dealers to multiple third-party classified sites
- Constructed modular integration framework with queuing systems and automated recovery processes to handle the complexity of diverse data sources and ensure system resilience

Jul 2021 — Jul 2022

Software Engineer, Gfinity PLC
London

Tech Stack: Vue 3, Nuxt, Vite, NaiveUI, WebSocket, Zend/PHP, Redis

- Developed key components for the F1 Esports platform using Vue 3, Nuxt, and NaiveUI, including dynamic results ingestion, real-time standings updates, and comprehensive race control admin dashboards
- Reduced application loading time by 80% through implementing route-based code splitting, component-level lazy loading, vendor chunk separation, and optimized build configurations in Vite
- Architected real-time tournament system handling 100K+ concurrent users through dedicated WebSocket server integration with backend event publishing via Redis Pub/Sub
- Designed bracket generation and seeding logic for complex tournament progressions while building specialized team management interfaces for official F1 teams

- Enhanced NVIDIA's GeForce Forums (Angular) performance by 25% through optimization of frontend components

Oct 2020 — May 2021   **Software Engineering Consultant, Community Dental Partners**   Denton

- Architected and maintained 10+ microservices using Node.js and GraphQL
- Improved database read performance by 75% through query optimization and caching strategies
- Developed RESTful API service for patient data integration, implementing comprehensive error handling and data validation
- Built a comprehensive testing suite using Jest and Playwright, achieving 90% test coverage

Sep 2019 — Sep 2020   **Software Engineering Consultant, American Sign Language Communication**   Henderson

Tech Stack: Node.js, React, .NET Core, AWS (ECR, EKS), Docker, Kubernetes, ArgoCD, Bitbucket Pipelines, Jest, Cypress

- Modernized critical legacy Node.js application (Node 6 to Node 18) for ASL interpreter scheduling platform connecting healthcare providers with interpreters
- Established comprehensive CI/CD pipeline using Bitbucket Pipelines, AWS ECR, and ArgoCD for GitOps-based deployments to EKS cluster, increasing feature delivery speed by 40%
- Reduced build time by 60% through Node.js version upgrade, webpack configuration optimization, and implementation of parallel build processes
- Designed robust Kubernetes deployment strategy with health/readiness probes enabling zero-downtime deployments and improved system reliability
- Established comprehensive frontend and backend testing framework using Jest for unit/integration tests and Cypress for E2E testing, achieving 80% test coverage on critical application paths
- Deployed regression testing suite for legacy codebase, preventing regressions during modernization efforts and ensuring business continuity

Jan 2019 — Aug 2019   **Full-stack Developer, AM Agency**   Hurst

Jan 2018 — Dec 2018   **Full-stack Developer, Webdev Zimbabwe**   Harare

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EDUCATION

Jan 2014 — Jan 2017   **Higher National Diploma In Information Technology, Mutare Polytechnic College**   Harare

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SKILLS

Frontend: React, Vue, Next.js, Nuxt.js, TypeScript, Tailwind

Backend: Node.js, Express.js, PHP (Laravel, Symfony), HAPI, GraphQL, REST APIs

Databases: PostgreSQL, MySQL, MongoDB, Elasticsearch

Cloud & DevOps: AWS, GCP, Docker, Kubernetes, CI/CD

Testing: Jest, Playwright, Cypress, PHPUnit, Pest

Other: Git, WebSocket, JAMstack

LANGUAGES

English   Highly proficient   Shona   Native speaker