DEREK OWARE

Senior Full-Stack Developer

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PROFESSIONAL SUMMARY

Senior Full-Stack Developer with 5 years of experience building scalable web applications and solving complex technical challenges. Proven track record in architecting AI-powered SaaS platforms, real-time systems, and intelligent scheduling algorithms. Known for delivering clean, maintainable code and exceptional user experiences. Co-founded and built complete technical infrastructure for food delivery startup.

PROFESSIONAL EXPERIENCE

Senior Full-Stack Developer | Welite

Remote | December 2021 - Present

- Architected and delivered 10+ production applications including e-commerce platforms, SaaS products, dashboards, and tracking systems for diverse clients
- Implemented comprehensive testing strategies using Jest for unit/integration tests and Playwright for end-to-end testing, ensuring 80%+ code coverage
- Conducted thorough code reviews for all team members, maintaining code quality standards and ensuring architectural consistency across projects
- Led major performance optimization initiatives on legacy codebases, reducing load times by up to 60% through code refactoring and caching strategies
- Spearheaded migration of large JavaScript codebases to TypeScript, improving code quality, developer productivity, and reducing runtime errors by 40%
- Served as technical lead for complex problem-solving, making architectural decisions for critical features and establishing development best practices

- Mentored junior developers through pair programming and code reviews, reducing onboarding time by 50%
- Technologies: Next.js, TypeScript, React, Nest.js, Node.js, Redux, Zustand, PostgreSQL, MongoDB, AWS, Socket.io, tRPC, IndexedDB, Jest, Playwright

Co-Founder & CTO | Dishplug

Ghana | October 2022 - April 2024

- Co-founded and built complete technical infrastructure for food delivery platform connecting campus vendors with students across multiple universities
- Developed customer web application, vendor admin panel, and rider mobile app achieving 100+ orders in first month of launch
- Implemented real-time order tracking system using GraphQL API, Firebase, and Socket.io, enabling live updates for customers and riders
- Integrated Google Maps API for location services, route optimization, and delivery tracking, reducing average delivery time by 25%
- Managed end-to-end operations including vendor onboarding (50+ restaurants), order fulfillment, and delivery coordination
- Technologies: Next.js, TypeScript, GraphQL, Apollo Server, React Native, Firebase, MongoDB, Socket.io, Google Maps API, Paystack

Full-Stack Developer | Freelance

Remote | November 2020 - July 2024

- Debugged and fixed critical OAuth authentication bug for fintech client using banking API with JWT integration, enabling secure transaction processing
- Automated digital store sales workflow using Steam login automation and 2FA handling via Google Email API, increasing sales efficiency by 80%
- Developed animated landing page with comprehensive SEO optimization achieving 95+ Lighthouse score across all metrics
- Built Facebook automation bot for real-time post engagement with auto-like functionality and contextual commenting, increasing engagement rate by 300%
- Created Chrome extension with dual-storage engagement tracking system using PostgreSQL and IndexedDB for offline-first functionality
- Technologies: TypeScript, React, Node.js, PostgreSQL, Chrome Extensions API, OAuth, Google APIs, Automation Tools

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RECENT PROJECTS

Adcraft - AI Video Ad Generator

Next.js, Nest.js, MongoDB, Puppeteer, FFmpeg, Eleven Labs API, Paystack

- Built AI-powered SaaS platform that transforms e-commerce product pages into professional video ads in under 60 seconds
- Implemented web scraping pipeline using Puppeteer to extract product images and videos from any e-commerce URL
- Integrated AI-powered script generation and voice-over creation with Eleven Labs API, supporting multiple voice styles
- Developed automated video rendering system using FFmpeg with customizable templates and transitions
- Integrated Paystack payment gateway with tiered pricing model ($0-30 per ad based on volume)
- Achieved 30-60 second average processing time per video with 98% success rate

Brilla - AI Study Assistant

Next.js, TypeScript, Supabase, OpenAI, AWS S3, PDF-Parse, Mammoth, Resend

- Developed intelligent study platform for college students that processes PDF, DOCX, and TXT documents with advanced parsing
- Implemented interactive document preview with text highlighting and annotation capabilities
- Built OpenAI-powered Q&A system enabling students to ask questions about their study materials with instant responses
- Created auto-generated quiz and flashcard system for active recall and spaced repetition learning
- Integrated Supabase for authentication and real-time data sync, AWS S3 for document storage, and Resend for email notifications
- Reduced study preparation time by 70% through AI-generated summaries and automated practice materials

Handymen - Smart Service Booking

Next.js, Nest.js, Prisma, PostgreSQL, TypeScript

- Architected sophisticated scheduling system with intelligent provider-to-customer matching algorithm
- Implemented time-slot conflict resolution and automated availability checking, reducing double-bookings to zero
- Built smart painter prioritization system based on availability, workload distribution, and proximity using custom algorithm

- Developed RESTful APIs for availability management with real-time slot recommendations when exact matches unavailable
- Created provider dashboard for availability management and customer booking interface with intuitive UX
- Reduced scheduling time by 85% through automated assignment logic with intelligent fallback mechanisms

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TECHNICAL SKILLS

Frontend: React, Next.js, TypeScript, JavaScript, Tailwind CSS, Redux, Zustand, React Query, Framer Motion, React Native

Backend: Node.js, Nest.js, Express, RESTful APIs, GraphQL, Apollo Server, tRPC, WebSockets, Socket.io

Databases: PostgreSQL, MongoDB, Prisma, Supabase, Firebase, IndexedDB

Cloud & DevOps: AWS (S3, EC2), Vercel, Docker, CI/CD, Git, GitHub Actions

Testing & Tools: Jest, Playwright, Puppeteer, FFmpeg, Figma, Chrome Extensions API

AI & APIs: OpenAI, Eleven Labs, Google APIs, Paystack, Resend

Other: Web Scraping, Automation, OAuth, JWT, Real-time Systems, Performance Optimization

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EDUCATION

Bachelor of Science in Computer Science | University of Mines and Technology
Tarkwa, Ghana | 2019 - 2023