

Winnard Arthur

Fullstack Developer | React, Next.js, Node.js, TypeScript | Mobile Developer
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Results-oriented Fullstack Developer with 5+ years of experience designing and scaling web, mobile, and SaaS applications. Skilled in React, Next.js, Node.js, TypeScript, React Native, and DevOps (Docker, Kubernetes, CI/CD). Experienced in RESTful APIs, microservices, and database optimization, with a proven ability to lead teams and build AI-powered, data-driven systems that drive measurable business value.

TECHNICAL SKILLS

- **Frontend:** Next.js, React, TypeScript, Tailwind CSS, Three.js, WebGL, GSAP, HTML, CSS, JavaScript, Redux, Material UI, Sass
- **Backend:** Node.js, Express, Prisma, Drizzle, PostgreSQL, MongoDB, Redis, tRPC, RESTful APIs, GraphQL
- **DevOps & Cloud:** Docker, Kubernetes, CI/CD, AWS, Vercel, Render, GitHub Actions
- **Mobile Development:** React Native, Flutter
- **AI Tools & Automation:** Inngest, E2B, AI Agents, AI Job Orchestration, Agent Memory
- **Design & Tools:** Figma, UI/UX, Wireframing, Git, GitHub, Bitbucket, Jira, Trello, Agile/Scrum

EXPERIENCE

Sesi Technologies - Ghana

- **Technical Lead - Fullstack (Web & Mobile) & DevOps** **Jan 2025 - Current**
 - Architected and deployed FarmSense, a cross-platform agriculture and soil intelligence platform built with Next.js, TypeScript, and Flutter, serving thousands of farmers and field agents.
 - Improved deployment efficiency by 40% with Dockerized CI/CD pipelines, enabling faster and more reliable releases.
 - Directed a team of 4 engineers, achieving a 95% sprint completion rate using Agile methodologies.
 - Automated version control and migration workflows, cutting manual effort by 70%.
 - Aligned development goals with business strategy to improve client satisfaction.
- **Senior Frontend Developer** **Nov 2023 - Dec 2024**
 - Developed Agromarket Dashboard and customer store with React, Next.js, and Tailwind CSS, increasing adoption by 60%.
 - Mentored developers, improving delivery throughput by 30% and ensuring consistent code quality.
 - Authored comprehensive documentation and collaborated closely with design/backend teams.
- **Frontend Developer** **Nov 2022 - Oct 2023**
 - Delivered Farmerpack Dashboard in 6 weeks, enabling better internal management.
 - Conducted product training that reduced support requests by 80% and improved user satisfaction.

Fullstack Developer (Contract - Remote), McGill University – Canada **Nov 2023 – Dec 2024**

- Built and deployed two production applications using Next.js, Node.js, and MongoDB.
- Designed dashboards for real-time order tracking and analytics across multiple campuses.
- Enhanced performance by 35% via backend optimization and API caching.

Fullstack Developer Intern, Waiterio LLC – Remote, USA **Dec 2021 – May 2022**

- Built and tested multi-language web apps in React/Vue.
- Published a technical [article](#) on [Polyblog](#) about React-Vue integration.

PROJECTS

1. LinqVibe - AI-Powered App Builder ([Live App](#) | [GitHub](#))

(Next.js, Prisma, PostgreSQL, tRPC, Docker, Inngest, E2B, AI Orchestration)

- Engineered an AI-driven SaaS platform that allows users to build full applications via conversational interfaces, integrating real-time orchestration and sandboxed execution environments.
- Implemented agent memory, job orchestration, and AI tool integration using Inngest and E2B, enabling reliable code generation and execution in isolated containers.

2. FarmSense - Agricultural & Soil Intelligence System ([Web App](#) | [Play Store](#))

(Flutter, Next.js, Docker, CI/CD, Shell Scripting)

- Built web and mobile platforms used by farmers and agents for soil testing and instant agronomy advice.
- Reduced deployment downtime to zero through automated CI/CD pipelines and containerized architecture.

3. Taskverse - Project Management SaaS (PWA) ([Live App](#) | [GitHub](#))

(Next.js, Prisma, MongoDB, Stripe)

- Designed and developed a Trello-style PWA for task management with real-time drag-and-drop interactions
- Integrated Stripe payments and multi-tenant authentication for teams and organizations.
- Improved load time by 30% through code splitting and SSR optimizations.

ACHIEVEMENTS

- Built and deployed 6+ production-grade apps used across universities, organizations and startups.
- Reduced deployment downtime to zero using Docker-based CI/CD pipelines and automated workflows.
- Collaborated with CEOs and product managers to translate business goals into scalable technical solutions, improving project delivery efficiency by 25%.

EDUCATION

BSc. Chemical Engineering, KNUST – Ghana.

Aug 2018 – Sep 2022