

# Ernest Wiafe-Annor

Senior Software Engineer | Full Stack Developer

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## PROFILE

Senior Frontend-Focused Software Engineer with 8+ years of experience building and scaling high-traffic, consumer-facing web applications in complex product environments. Currently working at Sky on large-scale streaming platforms used by millions of users, with a strong focus on product outcomes, performance, reliability, and accessibility. Deep expertise in modern frontend architecture (React, TypeScript, Next.js) combined with strong system design skills and cross-functional collaboration with product and design. Passionate about building maintainable UI platforms, improving developer productivity, and mentoring engineers.

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## TECHNICAL SKILLS

**Primary Focus (Frontend):** React, TypeScript, JavaScript, Next.js, Redux, GraphQL, HTML5, CSS3, Accessibility (ARIA, WCAG)

**Backend & APIs:** Node.js, Express, REST, Apollo, GraphQL

**Testing:** Jest, React Testing Library, Cypress, Playwright, Cucumber, Selenium

**DevOps & Delivery:** Git, Jenkins, GitHub, GitLab, CI/CD, Docker, Kubernetes, AWS, Azure

**UI & Design Systems:** Styled-components, Tailwind CSS, Material UI, CSS Modules, Design Systems

**Databases:** PostgreSQL, MongoDB, MySQL

**Ways of Working:** Agile (Scrum, Kanban), Trunk-based development, Code review, TDD/BDD

**Leadership:** Mentoring, coaching, technical leadership, frontend architecture

**AI Tools:** Claude, Claude Code, Cursor, Augment, GitHub Copilot

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## PROFESSIONAL EXPERIENCE

### Sky — Software Engineer (Senior-Level Frontend Role)

*May 2022 – Present*

- Lead frontend engineer on large-scale consumer streaming applications (NowTV Classic and Peacock), delivering customer-facing features used by **millions of users** across web and TV devices.
- Own complex UI features end-to-end, from technical design and state management through implementation, testing, deployment and production support, utilising CI/CD, Docker and Kubernetes.
- Play a key role in the modernisation of Sky's frontend platforms, contributing to the transition from React-based applications to Lightning to improve **rendering performance, startup time, and device compatibility**.

- Work closely with product managers and designers to translate user journeys and accessibility requirements into reliable, high-performance interfaces.
- Drive improvements in frontend performance, playback reliability, and accessibility, reducing customer-facing errors and improving overall viewing experience.
- Contribute to frontend architecture decisions, design system usage, and code standards, helping manage technical debt and improve long-term maintainability.
- Regularly support live production systems, participating in incident analysis and post-incident improvements to strengthen frontend platform resilience.

**Selected Achievements** - Led a performance optimisation initiative across key playback journeys, improving startup time and reducing customer-facing playback errors. - Delivered a major feature release end-to-end that shipped to production across multiple device platforms with zero critical regressions.

**Tech Stack:** React, Lightning, JavaScript, TypeScript, GraphQL, Jenkins, GitLab CI/CD, Docker, Kubernetes, Jest, React Testing Library, Cypress, Playwright

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## SYSTEM DESIGN & ARCHITECTURE

- Experience designing frontend architectures for high-traffic consumer applications, including component boundaries, state management strategies, data fetching layers, and GraphQL API integration.
  - Comfortable discussing trade-offs around performance, scalability, reliability, and maintainability in large UI platforms.
  - Regular participant in design reviews and architectural decision-making for new features and platform modernisation.
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## LEADERSHIP & COLLABORATION

- Mentor junior and mid-level engineers through code reviews, pairing, and technical guidance.
  - Act as a senior technical partner to product managers and designers, helping shape scope, feasibility, and delivery plans.
  - Promote engineering best practices around testing, accessibility, performance, and maintainable frontend architecture.
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## AND Digital (Sky) — Software Engineer

*March 2021 – May 2022*

- Key contributor to the launch of **Sky Glass**, a flagship product delivering pay-TV directly to screens without a set-top box.
- Built and enhanced internal customer agent applications supporting sales, purchases, and refunds, integrating with both legacy and modern backend systems.
- Contributed to backend upgrades and platform reliability improvements, helping improve scalability and operational stability.
- Worked in close collaboration with product, QA, and operations teams to deliver features safely in a regulated, customer-facing environment.

**Tech Stack:** React, React Context, GraphQL, Styled-components, Storybook, Playwright, Cucumber, Selenium, Jenkins, GitLab, Jest, React Testing Library

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## **AND Digital (Sports Direct, Flannels, House of Fraser) — Product Developer**

*March 2021 – May 2022*

- Led performance optimisation initiatives for high-traffic e-commerce platforms, significantly improving page load times and user experience.
- Produced actionable performance reports to identify and resolve critical bottlenecks across frontend and backend systems.
- Designed and built internal dashboards to support project tracking, resource planning, and organisational transparency.
- Worked closely with stakeholders to prioritise performance work that delivered direct commercial impact.

**Tech Stack:** Node.js, Next.js, React, GraphQL, Apollo, MongoDB, Jest, GitLab, Keycloak

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## **OLM Systems — Software Developer**

*January 2019 – November 2020*

- Migrated a large legacy YUI codebase to React as part of a next-generation SaaS platform in the Care, Health, and Education sector.
- Contributed to backend development in Java, modelling new entities and value objects to improve data integrity and system performance.
- Worked closely with product owners to deliver new functionality in a highly regulated domain.

**Tech Stack:** React, YUI, Java, Jest, Jenkins, Bitbucket

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## **Bliss Design Ltd — Frontend Developer (Contract)**

*August 2016 – July 2018*

- Built reusable and maintainable React and Angular components for client-facing web applications.
- Collaborated in agile teams to deliver projects on time, with a focus on clean code, scalability, and maintainability.

**Tech Stack:** React, Angular, JavaScript, PHP, HTML, CSS

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## **Caiman — Designer / Developer**

*February 2013 – November 2015*

- Developed interactive web experiences and UI components, contributing to improved usability and delivery speed.

- Designed and implemented website mock-ups and supported UI/UX improvements.

**Tech Stack:** ActionScript, Flash, PHP, HTML, CSS, Photoshop

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## **EDUCATION**

- IMIS Programming Diploma (IT) – Ghana (2000–2001)
  - SSCE – Ghana (1996–1998)
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## **CONTINUOUS LEARNING**

- Ongoing professional development in system design, frontend architecture, accessibility, testing strategies, and emerging technologies.
  - Regular use of modern AI-assisted development tools to improve productivity and code quality.
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## **ADDITIONAL INFORMATION**

- Languages: English
- Eligible to work in the UK
- References available on request