

## Frontend Developer and Product Designer (Web and Mobile) Bernard Kusi Dwumfour

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Portfolio: <https://portfolio-omega-ten-30.vercel.app/>

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

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### Professional Summary

Frontend and UI/UX Engineer who loves designing intuitive, user-friendly experiences that make complex ideas feel simple and approachable. I focus on developing visually appealing, high-performance interfaces with tools like React.js, Next.js, and React Native, blending design thinking with modern enterprise standards to ensure everything looks great and works seamlessly. My knowledge and experience in advanced frontend architecture enables me to build secure, scalable web applications using TypeScript, writing clean, maintainable code, and optimizing performance to deliver a smooth, reliable user experience.

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### Technical Skills

- **Frontend Technologies:** HTML5, CSS3, JavaScript (ES6+), TypeScript
  - **Styling:** CSS Modules, SASS, Styled Components, Tailwind CSS, Nativewind, Shadcn ui
  - **Responsive Design:** Mobile-first, Cross-browser Compatibility
  - **API Integration:** RESTful APIs, Fetch API, Axios
  - **API mocking:** Mockoon, Postman, Swagger
  - **State Management:** Context API, Zustand
  - **Deployment:** Vercel, Netlify, Nginx
  - **Frameworks/Libraries:** React.js, Next.js, React Native
  - **Version Control:** Git, GitHub
  - **Tools & Platforms:** Visual Studio Code, Figma, Photoshop
  - **Build Tools:** Webpack, Babel, Vite
  - **Testing :** Vitest, React-Testing-Library.
  - **API Development -** Nestjs , Expressjs, Python(Django)
  - **Rendering Strategies :** CSR, SSR , SSG , ISG with Nextjs
  - **Programming Concepts:** Data Structures And Algorithms ,Object oriented programming,Functional Programming
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### Professional Experience

#### ***Mesika Company Limited - Hybrid (Startup) | October 2023 – 2025***

- Worked closely with senior frontend engineers across multiple enterprise projects (banking, healthcare, payments, agriculture), making significant contributions while absorbing industry best practices in React architecture and performance optimization.

#### ***Sizemug(UK) - Remote freelance (Startup) | July 2024 - August 2025***

- Collaborated with a frontend team to develop Sizemug (an advanced project management system) using React.js and TypeScript, adopting best practices in state management and performance optimization through iterative development and code reviews.

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## Projects

### 1. Core Banking System (CBS)

**Technology Stack:** React.js, TypeScript, TailwindCSS, ShadcnUI, Tanstack Query.

Built a full-scale banking platform featuring **account management, real-time transactions, loan processing, audit trails, internal ticketing, and RBAC security** - optimized for 10,000+ daily transactions.. Ensured the system was optimized for high availability and performance.

### 2. PolEasy – Privacy Policy Simplification Tool(Frontend)

**Technology Stack:** React.js, Next.js, TypeScript, TailwindCSS ,

Developed a web application that connects to an AI model to categorize and summarize privacy policies and generates infographics for the various categories. The platform simplifies complex legal jargon into easily understandable content, helping users make informed decisions about data privacy and compliance. Worked closely with an AI engineer to integrate the AI model.

### 3.Customer Feedback System (Frontend)

**Technology Stack:** React.js, TypeScript, TailwindCSS, ShadcnUI, Tanstack Query.

Built frontend for an issue tracking system (ticketing portal) used by support teams.Features included Ticket creation/management, assignment workflows, priority escalation, audit logs, and real-time analytics dashboards.

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## Problem-Solving Approach

**Tooling:** Tools and technologies selection based on project needs. **React.js** for component-driven UIs, **Next.js** for SEO and performance with **SSR/SSG, CSR** where client-side speed is critical., **Zustand** for lightweight state handling and **React Query** for async data fetching with caching and deduplication, reducing redundant API calls by ~40%.

**Scalable UI Design:** Implementation based on **atomic design principles** and reusable component libraries ensuring consistency and rapid rollout of new modules without redesigning core UI elements.

**Security Built-In:** Application of **RBAC with JWT claims** to enforce least-privilege access and integrated **two-factor authentication (2FA)** for stronger login security.Combined with audit trails and encryption, this helps prevent unauthorized access and keeps systems aligned with security best practices.

**Performance Optimization:** Achieved through **code-splitting** (React.lazy) and **Tree Shaking** combined with render **memoization** (useMemo, useCallback, React.memo) to improve interaction time and reduce bundle size by and improving load times.

**Maintainability:** **Modular architecture**, standardized folder structures, and React patterns to reduce developer onboarding time and minimize regression risks during updates.

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## Education

**Bachelor of Science in Computer Engineering**

*University of Ghana | 2020 – 2024*