Manuel R. Blum - Front-End/UI/UX Engineer

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Experienced Front-End and UX Developer with over a decade of expertise in building intuitive, responsive web applications and scalable single-page applications (SPAs). Skilled in modern front-end frameworks including **React**, **Vue**, and **Next.js,** with strong proficiency in **HTML**, **CSS/SCSS/LESS**, and **JavaScript**. Adept in front-end architecture, user-centered design, and component-based development. Brings hands-on experience with backend technologies such as **Node.js**, **Python**, **SQL**, and **MongoDB**, and familiarity with DevOps practices in Linux environments. Proven collaborator with cross-functional teams and dedicated mentor, focused on delivering high-quality, performance-driven digital experiences.

Skills

Front-End

- React
- Redux
- Vue
- Next.js
- TypeScript
- JavaScript (ES6+)
- HTML5
- CSS3
- Sass/LESS
- Responsive & Mobile-First Design
- SPA Development
- Tailwind CSS
- Material UI
- Bootstrap

Design & UX

- Figma
- Adobe XD
- Sketch
- Miro
- Photoshop
- Accessibility (WCAG)
- Component Libraries
- UX Wireframing
- UX Prototyping

API/Middleware/Backend

- GraphQL (Apollo Client)
- REST APIs
- Node.js
- Express
- Postgres
- MongoDB

Tooling & Workflow

- Git
- GitHub
- Docker
- GCP
- CI/CD
- Linux/Unix
- Agile/Scrum
- Jira
- React Testing Library
- Jest

Experience

Senior Software Engineer - Beep, Inc. – Remote
June 2022 – Present

- Led front-end engineering efforts for a scalable platform supporting autonomous vehicle hardware and live operations, enabling seamless interaction for control center operators and site managers.
- Developed and maintained a modular, high-performance dashboard using **Next.js**, **Apollo Client (GraphQL)**, and **Material UI**, offering real-time visibility into vehicles, routes, users, sites, and assets.
- Integrated APIs and optimized data handling through tight collaboration with backend and middleware teams, improving efficiency via Apollo's client-side caching strategies.
- Translated complex business requirements into user-centric interfaces and intuitive UX flows through close partnership with product managers and stakeholders.
- Actively participated in Agile ceremonies (stand-ups, sprint planning, retrospectives), conducted rigorous code and design reviews, and resolved scalability and performance challenges across the stack.
- Prototyped and validated UI enhancements with iterative feedback loops, improving platform usability, system responsiveness, and operator productivity.
- Contributed to engineering research and development efforts at AutonomOS, driving innovation in autonomous system management through thoughtful UI architecture and cross-functional collaboration.

Senior Software Developer - BlueFletch – Atlanta, GA
Nov 2017 – June 2022

EMS (Enterprise Mobility Security) Portal

- Led feature development and enhancement for the **Enterprise Mobility Security (EMS) Portal**, a flagship Bluefletch product providing enterprise-grade device security and management.
- Built and maintained scalable front-end components using **React** and **Redux**, improving user experience and delivering responsive, intuitive UI solutions aligned with business goals.
- Collaborated cross-functionally with **Business Analysts** and **Designers** to evaluate and implement feature requests, ensuring customer-centric solutions and successful delivery.

- Worked across a modern full-stack environment including **Node.js**, **PostgreSQL**, **MQTT**, **Twilio**, and **Google Cloud Platform (GCP)** to build secure, reliable, and efficient systems.
- Participated in end-to-end feature planning and development, from requirements review through deployment, including backend service coordination and data integration.
- Provided mentorship to **Interns and Junior Developers**, offering code guidance, architecture insights, and support for both portal and Android development projects.
- Contributed to Bluefletch's mission to deliver secure enterprise mobility solutions by actively improving platform functionality, reducing technical debt, and promoting engineering excellence.

Contractor Tablet Application

- Developed a cross-platform field service application using **Angular** and **Cordova**, enabling technicians to efficiently manage and complete daily work orders on **Windows tablets** with a native app-like experience.
- Designed the solution for browser accessibility while optimizing usability for mobile hardware, enhancing technician productivity and on-site task execution.
- Collaborated with the client to modernize their broader application suite, leading development efforts using **Vue.js** to create scalable, tablet-compatible apps for both **Windows** and **Android** devices.
- Contributed to long-term digital transformation initiatives by aligning application architecture with evolving hardware platforms and client-specific operational workflows.

Retail Inventory Management Services

- Partnered with a major retail client to modernize inventory management tools for store employees by supporting the backend development of Android-based solutions.
- Designed and implemented new **Java-based APIs** to integrate seamlessly with existing backend systems, improving data flow and operational efficiency across retail locations.
- Collaborated closely with an Android Developer to define service requirements, ensure compatibility, and deliver robust API functionality tailored to mobile device interactions.
- Supported the transition from legacy hardware to updated Android platforms by delivering scalable, maintainable services that enhanced inventory tracking and store performance.

Education

Art Institute of Atlanta
B.F.A. in Interactive Media Design

Georgia College & State University
B.B.A. in Management Information Systems