

# MANUEL R. BLUM

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## PROFILE

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**, 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**, **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/SSR
- TypeScript
- JavaScript (ES6+)
- HTML5
- CSS3
- Sass/LESS
- Responsive
- Mobile-First Design
- PWA
- SPA Development
- TailwindCSS
- Material Design/UI
- Bootstrap
- Bulma
- Antd

### DESIGN & UX

- Figma
- Sketch
- Miro
- Photoshop, XD, Illustrator
- Storybook
- Accessibility (WCAG)
- Component Libraries
- UX Wireframing
- UX Prototyping

### MIDDLEWARE/BACKEND

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

### TOOLING & WORKFLOW

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

## PROFESSIONAL EXPERIENCE

### SENIOR SOFTWARE ENGINEER

JUNE 2022 – APRIL 2025

**Beep, Inc. – Remote**

- 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**, **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

NOV 2017 – JUNE 2022

**BlueFletch – Atlanta, GA**

#### 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**, **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** 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

## REFERENCES

AVAILABLE UPON REQUEST