

# Michael Hayden

Principal Frontend Engineer | Staff-Level UI Architect | React & TypeScript

Greeley, Colorado • (970) 978-6418 • [engineermhayden@gmail.com](mailto:engineermhayden@gmail.com) • GitHub: [github.com/engineermhayden](https://github.com/engineermhayden)

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## PRINCIPAL FRONTEND ENGINEER PROFILE

Principal Frontend Engineer with **18+ years of software engineering experience** and **15+ years building large-scale web applications**, specializing in **TypeScript, React, Next.js, and frontend architecture** for complex SaaS platforms. Proven track record architecting extensible UI systems, reusable component libraries, and scalable frontend infrastructure used across global organizations. Known for craftsmanship, mentorship, and elevating UX and frontend engineering standards while remaining deeply hands-on. Passionate about leveraging **GenAI tools** to accelerate development workflows and enhance customer-facing experiences.

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## FRONTEND ARCHITECTURAL IMPACT

- Architected and delivered **highly scalable, production-grade frontend applications** used globally across regulated industries.
  - Designed **modular, reusable UI component systems** enabling consistent UX across multiple applications and teams.
  - Led frontend architectural direction while operating as an individual contributor.
  - Partnered closely with **UX, Product, and Backend teams** to simplify UI development practices and reduce delivery friction.
  - Championed **frontend best practices**: performance optimization, accessibility, testing, and maintainable code.
  - Integrated **AI-assisted development workflows** to improve developer efficiency and code quality.
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## CORE FRONTEND & PLATFORM SKILLS

Design Systems & UI Architecture

- Architected and evolved **design systems and shared component libraries** supporting multiple applications and teams.
- Established UI standards for typography, layout, theming, accessibility, and interaction patterns.
- Enabled strategic code sharing across products through modular component design and versioned packages.
- Partnered with UX and Design to translate design language into scalable, maintainable frontend architecture.
- Drove consistency, performance, and long-term maintainability across large React and TypeScript codebases.

### **Frontend Technologies**

- TypeScript, JavaScript (ES6+)
- React, Redux, Next.js
- Micro-frontend and SPA architectures
- Responsive UI development (10+ years)

### **UI Engineering & UX Enablement**

- Design systems & shared component libraries
- UX standardization and UI governance
- Accessibility-aware development (WCAG familiarity)
- Performance optimization and scalability

### **Platform & Infrastructure (Frontend-Focused)**

- Node.js
- Docker
- Frontend build pipelines and CI/CD (GitHub Actions)
- API integration and contract-driven development

### **Testing & Quality**

- Unit and integration testing strategies
- Code reviews, architectural reviews, technical documentation

### **AI-Augmented Development**

- Daily use of GenAI tools to accelerate coding, refactoring, testing, and documentation

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## **PROFESSIONAL EXPERIENCE**

## **iCloud Developers, LLC – Denver, CO**

**Principal Frontend Engineer / Senior Full Stack Engineer** *Dec 2023 – Present*

- Serve as frontend technical authority for a multi-tenant SaaS platform delivering geospatial intelligence and analytics.
  - Architect and build **TypeScript + React applications** with an emphasis on scalability, performance, and maintainability.
  - Design reusable UI components and shared patterns consumed across multiple application surfaces.
  - Collaborate with UX and Product to simplify and standardize UI development practices.
  - Participate in design reviews, code reviews, and architectural governance.
  - Integrate AI-assisted tooling into development workflows to improve efficiency and quality.
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## **Swell – Santa Monica, CA**

**Senior Frontend / Full Stack Engineer** *Nov 2022 – Dec 2023*

- Built complex, data-intensive **React and Next.js** user interfaces for solar energy modeling and financial estimation platforms.
  - Designed UI systems visualizing production loss trees, performance metrics, and geospatial data.
  - Implemented reusable UI components and state management patterns across teams.
  - Partnered with designers to deliver responsive, user-friendly experiences.
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## **SAS Institute – Calgary, Canada**

**Senior Frontend / Full Stack Engineer** *Jan 2022 – Nov 2022*

- Developed **React/Redux TypeScript applications** for regulated energy trading platforms.
  - Collaborated with backend and UX teams to deliver secure, scalable user experiences.
  - Ensured frontend architecture aligned with compliance, performance, and security requirements.
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## Passport Labs, Inc. – Charlotte, NC

**Lead / Senior Frontend Engineer & Architect** *Dec 2020 – Jan 2022*

- Led frontend architecture during the modernization of a monolithic application into microservice-based systems.
  - Architected **shared UI patterns and component reuse** across multiple products.
  - Built scalable React and TypeScript frontends consumed across North America.
  - Mentored engineers and led code reviews focused on craftsmanship and maintainability.
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## Cleo Labs, Inc. – San Francisco, CA

**Managerial Lead / Senior Frontend Engineer** *Nov 2018 – Dec 2020*

- Led frontend development for web and mobile applications using **React and React Native**.
  - Established frontend engineering standards and development best practices.
  - Worked closely with design teams to elevate UX consistency and quality.
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## Apple, Inc. – Boulder, CO

**Senior Frontend Engineer / Architect** *Jan 2015 – Oct 2018*

- Architected and delivered global frontend platforms for Apple Beats retail performance analytics.
  - Built React-based UI systems deployed worldwide across major retail partners.
  - Designed reusable visualization components and location-based UI features.
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## EDUCATION

**California State University, Northridge** Computer Science / Music Performance (Clarinet)

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## AWARDS

- **Time Warner Cable COED Innovation Award (2014)**
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## **PRINCIPAL ENGINEER STRENGTHS**

- Frontend architecture ownership with and without people management
  - Craftsmanship, scalability, and extensibility
  - Cross-team technical leadership and consensus building
  - Strong written and verbal communication
  - Continuous learning and technology research
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## **REFERENCES**

Available upon request