

Keenan Barber

Senior Software Engineer | TypeScript · Node.js · React

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SUMMARY

Senior full-stack engineer with 7+ years building web platforms and automation tools in TypeScript and Node.js. Most of my work has been in healthcare, where I've migrated legacy systems to modern API-based architectures, built internal tools for non-technical teams, and improved automation pipelines running across multiple hospital systems. I work fluently with modern AI development tools (Claude, Cursor, and others), integrating them into my day-to-day workflow to move faster without sacrificing code quality or test coverage. I focus on maintainable system design, performance, and writing well-tested production software.

SKILLS & TECHNOLOGIES

Languages & Frameworks: TypeScript, JavaScript (ES6+), Node.js, React, GraphQL, SQL, PHP, HTML5, CSS3

Architecture & Design: REST APIs, Microservices, System Design, Software Infrastructure, Scalable Automation

Testing: Jest, Selenium, Playwright

Infrastructure & Tooling: Docker, AWS, CI/CD, GitHub Actions, Jenkins, AI-assisted development (Claude, Cursor)

Practices: Agile, Git, Jira

EXPERIENCE

Senior Software Engineer | Janus Health

Apr 2023 – Feb 2026

- Helped migrate prior-authorization workflows from a legacy monolith to a new API-based system, rebuilding supporting services, data models, API routing, payload validation, metric reporting, and testing infrastructure along the way.
- Built automation services and internal APIs used to process prior-authorization data across multiple hospital systems.
- Developed internal web tools that let the Customer Success team safely update records without requiring engineering support.
- Updated a production Chrome extension to meet Manifest V3 requirements and improved stability for concurrent automation runs using WebSockets.
- Supported the automation build team and developed infrastructure to monitor application health.

Software Engineer | Olive AI

Aug 2020 – Feb 2023

- Built automation pipelines handling revenue-cycle tasks such as claim status checks and form submission across multiple healthcare systems.
- Designed and developed a reusable, productized version of the claim-status automation process used throughout the organization.
- Contributed to the architecture of a reusable data structure that standardized how internal services and external APIs exchanged data.
- Reduced vendor and resource costs by more than \$1M annually by identifying unnecessary API usage and redesigning parts of the automation workflow to reduce external calls.

Front End Web Developer | Elexicon / Valorous Circle

Feb 2018 – Mar 2020

- Built custom WordPress themes and plugins for client websites using PHP and JavaScript, focusing on performance and usability.
- Rebuilt a global enterprise website and reduced page load times by more than 50% through caching improvements and media optimization.

- Developed a content-prioritization algorithm to reduce server load during high-traffic periods.
- Managed hosting environments and ongoing support for more than 100 client sites.

EDUCATION

B.S. Statistics | Grand Valley State University

Apr 2014