

Andrew Shell

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Experienced Software Engineer

With over 20 years of experience in web development, I am well-suited for the Experienced Software Engineer role. My expertise includes senior individual contributor roles, mentoring, and technical leadership. I have a proven track record of building and maintaining both backend and frontend systems. As a founder and CTO, I launched two SaaS platforms, led cross-functional development teams, and worked closely with stakeholders to shape and prioritize features. I bring deep hands-on experience, clear communication, and a strong execution mindset to fast-moving engineering environments.

Technical & Core Skills

JavaScript | Typescript | Node.js | Amazon Web Services (AWS) | MySQL | MongoDB | Linux | React | Git | Docker | Code Review | Software Architecture | Leadership | API Development | Jest & Vitest Testing Frameworks

Work History

PetPlace, Remote

5/2025 – Present

Team Lead / Senior Software Engineer

- Lead a team of four engineers, providing technical direction through code reviews, pair programming, and task breakdown to help junior developers build confidence and ship without getting overwhelmed.
- Designed and owned backend data architecture, including a reusable structured note entity that became the foundation for multiple components across a medical records feature.
- Bridge product and engineering by participating in regular planning sessions with product owners and UX designers, translating customer research into implementable scope and pushing back when designs exceed available time or complexity budgets.
- Build full-stack features on a large-scale React Router 7 application.

Johnson Health Tech, Cottage Grove, WI

10/2019 – 5/2025

Senior Web Engineer

- Design and implement API integrations with third-party partners.
- Review partner documentation and write code to integrate partner services with internal systems.
- Architected automated testing infrastructure with Docker and Mocha to mock third-party APIs, enabling reliable refactoring and validation.
- Collaborate with internal and external teams to document requirements, design data flows, and ensure resilient systems.
- Create detailed documentation for data flows, integration steps, and guidelines for reviewing new partner APIs, facilitating efficient onboarding and project execution.

Acumium, Madison, WI

10/2018 – 5/2019

Web Developer

- Developed and implemented training plans to enhance git competence and standardized development processes.
- Utilized Node.js in backend development for business applications, supporting security best practices.

Stryv, Madison, WI

11/2017 – 10/2018

Lead Full-Stack Developer

- Designed and implemented full-stack applications, ensuring seamless integration of Angular 4 front-end and Laravel back-end components.
- Collaborated closely with founder to gather requirements and translate them into technical specifications.
- Implemented efficient database structures and optimized queries for improved performance.
- Developed and maintained RESTful APIs, enabling smooth communication between client and server.
- Implemented best practices to ensure code quality, maintainability, and adherence to coding standards.

Rockwell Automation/Aquent, Milwaukee, WI

08/2018 - 10/2018

Freelance React Developer

- Developed reliable tradeshow kiosk applications using React 16.
- Communicated with stakeholders for requirements and feedback.

Pinpoint Software, Madison, WI

06/2011 – 01/2018

Technical Co-Founder and Chief Technology Officer

- Built two software-as-a-service applications, demonstrating technical expertise and entrepreneurial drive.
- Successfully launched a proof of concept six weeks prior to field testing, leading to securing seed financing.
- Collaborated closely with customers and the CEO to design specifications and prioritize feature development.
- Managed servers and development pipelines, ensuring efficient and reliable operations.
- Recruited and managed a team of developers, both in-house and outsourced, and worked with designers.
- Developed applications using AngularJS, Angular 2 & 4, and Ionic Framework for the frontend, and Laravel for the backend, delivering user-friendly and responsive interfaces.

Education

Herzing College, Madison, WI

Bachelor of Science – Technology Management

Associate of Science – Computer Information Systems