

# Ryan LeCours

Senior Full-Stack Software Engineer / Developer

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## SUMMARY

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Senior Software Engineer and Developer with 8+ years of experience in JavaScript, TypeScript, React, Node.js, system design, and AWS. Proven track record leading cross-functional teams, building scalable microservices architectures, and delivering responsive, accessible user experiences. Skilled in technical leadership, API design, and performance optimization. Experienced in AI-assisted development using Claude to accelerate personal projects while delivering complex enterprise software through traditional engineering practices.

## TECHNICAL SKILLS

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**Languages and Frameworks:** React, React Native, Next.js, TypeScript, JavaScript (ES6+), HTML, CSS, Vue (v2-v3), Node.js, Java (Spring Boot)

**Cloud and DevOps:** AWS (Lambda, S3, EC2, CloudWatch), Azure, Railway, Vercel, Docker, Jenkins, GitHub Actions, CI/CD

**Data and APIs:** GraphQL (Apollo Federation), REST, SQL, PostgreSQL, Prisma, Redis, BullMQ, Stripe, OAuth 2.0, Microservices

**Testing:** Jest, Vitest, Cypress, React Testing Library, JUnit, Test Driven Development

**Architecture and Tools:** System Design, API Design, Monorepos (Nx, Yarn Workspaces), Webpack, Vite, Expo, Git, Responsive Design, Performance Optimization

**Practices:** Technical Leadership, Cross-Functional Collaboration, Accessibility (a11y, WCAG), AI-Assisted Development (Claude), Agile, Scrum, Paired Programming, Code Reviews

## EXPERIENCE

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### DCS Corporation | May 2023 - Present

*Senior Software Engineer (Software Engineer III) | Remote*

- Built modular React and TypeScript front-end packages in a secure monorepo for flight-planning software, enabling map rendering, geospatial overlays, and interactive tools adopted across multiple teams.
- Led cross-functional front-end standards for architecture, testing, and performance optimization; mentored engineers and shipped reusable components, reducing duplicate UI code by 60% and accelerating new feature delivery by 30%.
- Implemented robust state management patterns using Redux and RxJS to streamline complex async workflows and ensure consistency across 17 shared React packages.
- Cut CI/CD build times by 91% through Azure Blob Storage caching and pipeline refactoring, improving delivery speed and reliability across the organization.
- Appointed as the sole Technical Lead on a \$250M+ federal contract bid, driving technical leadership, system design, and stakeholder alignment between engineering deliverables and client requirements.

### Fidelity Investments | June 2018 - May 2023

*Senior Software Engineer (promoted from Associate, 2018) | Merrimack, NH*

- Built and maintained 4 Vue and 7 Angular micro frontends using JavaScript and TypeScript, defining front-end standards that improved performance, accessibility, and maintainability across enterprise applications.
- Designed and developed 13 Node.js GraphQL microservices, modernizing legacy Java REST APIs into scalable, federated services powering real-time financial workflows that improved data response times by 40%.
- Deployed GraphQL microservices on AWS Lambda, improving scalability, reliability, and deployment speed across multiple product teams.
- Led cross-team initiatives including migration of 70+ applications from Bitbucket to GitHub and mentoring programs that elevated engineering standards company-wide.
- Promoted 3 times in 5 years from Associate to Senior Software Engineer, recognized for delivering high-impact features across customer-facing financial platforms serving millions of users.

## PROJECTS

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### **Loam Logger - AI-Assisted Development with Claude | October 2025 - Present**

*Full-stack mountain bike ride tracker and component health platform | [loamlogger.app](#) | [github.com/ryanlecours/loam-logger](#)*

- Architected and built a production Nx monorepo with React 19, TypeScript, Node.js, Apollo GraphQL, and Prisma with PostgreSQL, enabling shared code across web and mobile from a single codebase deployed on Railway (API) and Vercel (web) with GitHub Actions CI/CD.
- Developed a cross-platform React Native mobile app using Expo with secure JWT authentication, Google and Apple OAuth, encrypted token storage, and push notifications, delivering a native experience on iOS and Android.
- Engineered 3 real-time third-party API integrations (Garmin, Strava, WHOOP) via OAuth 2.0, webhook-based sync, historical backfill with incremental checkpointing, and cross-provider duplicate detection, unifying ride data from multiple sources into a single dashboard.
- Built backend infrastructure including BullMQ job queues with Redis, Stripe subscription billing, transactional email via Resend, and a predictive service-health tracking system across 20+ component types.
- Maintained 700+ unit tests using Vitest and React Testing Library, achieving comprehensive coverage across the full JavaScript and TypeScript stack while leveraging Claude AI to accelerate system design, implementation, and iteration speed.

## CERTIFICATIONS AND PROGRAMS

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DoD Secret Clearance (Active) | Fidelity LEAD Engineering Leadership Program | Fidelity LEAP Development Program

## EDUCATION

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University of Massachusetts Amherst - Amherst, MA | B.S. Computer Science - May 2018