

Ryan C. McGuiness

Software Engineer

ryanmcguiness123@gmail.com | (732) 675-8146 | New York, NY
ryanmcguiness.com | github.com/rmcguiness | linkedin.com/in/ryan-mcguiness

SUMMARY

Software engineer with five years of experience building production React and TypeScript applications for enterprise clients. Ground architecture decisions in benchmark data, deliver measurable performance and reliability gains, and ship features end-to-end.

PROFESSIONAL EXPERIENCE

Perficient, Inc. — Allentown, PA

Software Engineer Consultant | June 2021 – Present | Clients: Caterpillar, Dish

- Core engineer on Caterpillar's multi-dealer e-commerce platform, contributing 200+ production pull requests across UI architecture, state management, performance optimization, and full-stack feature delivery.
- Traced React memoization failures to object-identity mismatches in call signatures and refactored them to primitive arguments, reducing a high-traffic endpoint from 180+ calls to 6 and cutting approximately 10 seconds from page load time.
- Rebuilt core customer-facing pages in React and Next.js with new API integrations and responsive layouts, achieving a 10-point Lighthouse gain over the legacy implementation.
- Introduced Jest unit testing and a mock API server to the CI/CD pipeline, raising code coverage from near zero to 90% and significantly reducing regressions in staging and production.
- Settled a contested API design debate with benchmark data, measuring a single bulk endpoint with client-side filtering against multiple server-side filtered endpoints on load time, request volume, and projected cost; won stakeholder buy-in for the design that proved faster past 10,000 products.
- Mentor two developers on a 10–15 person team and lead sprint refinement and architecture and design review; recognized as a senior engineer by clients including Caterpillar and Dish.

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Python, SQL, HTML, CSS

Frontend: React, Next.js, Tailwind, Recharts, Chart.js, TradingView Lightweight Charts

Backend & Data: Node.js, REST APIs, PostgreSQL, Prisma, Supabase

Testing & Delivery: Jest, Playwright, Docker, Git, CI/CD

AI-Assisted Development: Cursor, GitHub Copilot, Claude Code

PROJECTS

Price Tracker — pricetracker.ryanmcguiness.com

- Full-stack Next.js and TypeScript app aggregating grocery prices from web scrapers, barcode scanning, and receipt OCR, with interactive price-history charts in TradingView Lightweight Charts.
- Architected a service-layer REST backend on PostgreSQL and Prisma with Stripe billing and Clerk authentication supporting free and pro subscription tiers.

Next.js Playground — nextplayground.ryanmcguiness.com

- Supabase-backed sandbox for testing Next.js rendering and data-fetching strategies, and for prototyping portfolio, restaurant, and e-commerce builds.

EDUCATION

Lehigh University — Bethlehem, PA

BS, Double Major in Computer Science and Economics | May 2021