

# KEVIN CARTER

## SOFTWARE ENGINEER (REACT + TYPESCRIPT)

React + TypeScript • UI Architecture • Responsive UI • Testing (Unit, Integration, E2E) • REST APIs • SQL • AuthN/AuthZ

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### Work Experience

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#### Full-Stack Software Engineer

2023 – Present

*100devs*

*Atlanta, GA*

- Built and maintained customer-facing and internal workflows in React integrated with REST APIs, improving enrollment operations and reducing support tickets 32%.
- Implemented TypeScript-first UI patterns (typed request/response contracts, reusable components, form validation and error states), improving maintainability and reducing UI regressions.
- Developed responsive interfaces with structured loading, error, and empty states to ensure resilient user experiences across devices.
- Wrote unit, integration, and API validation tests to prevent regressions prior to release, reducing post-release defects 25%.
- Designed normalized PostgreSQL schemas with indexed foreign key relationships and optimized query plans, reducing average query execution time 30% under peak enrollment load.
- Implemented authentication and authorization for protected endpoints (JWT, role-based access control), reducing unauthorized submissions and duplicate enrollments.
- Engineered centralized error-handling middleware and structured request logging, decreasing production debugging time 35% and improving incident resolution speed.

#### Quality Assurance Technical Lead (Automation & Python)

Mar 2024 – Mar 2025

*Material in Motion – Google Gemini AI Servers*

*Atlanta, GA*

- Developed Python automation scripts and production dashboards supporting AI server validation workflows, increasing daily throughput 25% across 41+ servers per day.
- Analyzed system logs and profiled validation workflows to identify performance bottlenecks, reducing idle time 18% and improving operational efficiency.
- Led 10–20 automated validation test cycles per release using a Google-designed QA platform, maintaining 96% quality accuracy across hardware/software systems.
- Implemented structured defect tracking and debugging workflows in Bugzilla, reducing recurring production issues 30% and improving resolution turnaround time.

#### Software Engineer

Mar 2023 – Feb 2024

*Six Consulting*

*Atlanta, GA*

- Built Angular 15/16 applications using TypeScript and NGRX state management, integrating REST APIs and reducing state-related UI defects 35%.
- Implemented unit and end-to-end testing using Jasmine, Karma, and Cypress, increasing regression coverage and reducing post-release UI breakage 30%.
- Developed Node/Express services with secure authentication and protected route guards, improving session reliability 40% and reducing unauthorized access incidents.
- Collaborated in Git feature-branch workflows with structured code reviews, reducing merge conflicts 25% and improving sprint delivery predictability.

### Education & Professional Development

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#### Software Engineering – Applied Professional Experience

2022 – Present

- Built production web applications with React and TypeScript, integrating REST APIs with secure authentication and authorization patterns.
- Applied SQL data modeling and relational database principles in PostgreSQL, including normalization, indexing, and query optimization.

- Practiced software testing fundamentals across unit, integration, and end-to-end coverage to improve reliability and reduce regressions.
- Collaborated with stakeholders to translate requirements into maintainable, well-documented software delivered through iterative releases.