

Nick Piazza

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SUMMARY

Frontend Technical Lead and platform architect with 7+ years of experience owning frontend architecture across multiple teams. Building applied AI systems as a founder, including a computer vision SaaS for automotive photographers using YOLO-based detection, embeddings, and clustering. Focused on the intersection of scalable frontend platforms and AI-powered product engineering.

EXPERIENCE

ePayPolicy, Austin TX — Senior Software Engineer (Frontend Technical Lead)

MARCH 2025 – PRESENT

- Led a platform-wide modernization initiative, defining an org-wide refactoring strategy and introducing developer-owned E2E testing workflows to reduce QA bottlenecks and improve engineering velocity across multiple teams.
- Owned front-end architecture across multiple teams (~20 engineers), standardizing patterns and tooling to reduce cross-team inconsistencies and improve developer productivity.
- Directed platform modernization efforts including migration to ESM and adoption of shared TypeScript, ESLint, and Prettier standards, improving maintainability and reducing development friction.
- Introduced AI-assisted development practices and testing automation strategies to improve engineering efficiency and accelerate development workflows.
- Mentored engineers across multiple teams on React and TypeScript best practices, improving code quality consistency and reducing review overhead.
- Partnered closely with Product, Design, QA, and Security teams to navigate technical ambiguity and drive predictable delivery of business-critical initiatives.
- Improved performance and scalability by refactoring global state management and simplifying dependency architecture, reducing re-renders and bundle complexity.

MacStadium, Austin TX — Senior Software Engineer (Technical Lead)

SEPTEMBER 2024 – MARCH 2025

- Led transition from offshore to newly formed onshore team, driving knowledge transfer for a complex multi-product codebase and establishing long-term ownership.
- Implemented Scrum rituals and improved engineering-product collaboration, increasing delivery predictability.
- Conducted architectural reviews and code quality enforcement to stabilize systems during organizational change.

Fidelity Investments, Austin TX — Senior Software Engineer (Technical Lead)

JUNE 2022 – SEPTEMBER 2024

- Led front-end development for a high-traffic customer-facing platform supporting large-scale digital experiences.
- Led quarterly cross-functional planning across Product, Design, and QA, translating business objectives into executable engineering roadmaps and aligning technical delivery with organizational priorities.
- Designed and led a mentorship program adopted as the team's standard onboarding framework, reducing engineer ramp-up time from three days to approximately thirty minutes.
- Drove front-end performance and maintainability improvements through architectural standardization and reusable component strategies.
- Facilitated technical decision-making and delivery tradeoff discussions across stakeholders, balancing long-term maintainability with short-term business priorities.

Splash Financial, Austin TX — Software Engineer

SEPTEMBER 2021 – JUNE 2022

- Contributed to architectural design of a cross-team product initiative spanning four backend teams and multiple stakeholders.
- Implemented new product features using React, TypeScript, GraphQL, and Laravel while improving Agile processes and reducing PR review time.

OnlineMedEd, Austin TX — Software Engineer

DECEMBER 2018 – SEPTEMBER 2021

- Led migration of 100+ routes from Laravel Blade to React, modernizing the platform architecture.
- Contributed to 30% YoY revenue growth and 150% YoY B2B growth through new feature development.
- Reduced onboarding time from 3 days to 30 minutes by automating local development setup.
- Championed refactoring and test automation initiatives to stabilize a legacy system.

Saturn Web Development, San Jose CA — Software Engineer

AUGUST 2017 – DECEMBER 2018

- Built front-end experiences for multiple client projects using JavaScript, jQuery, HTML, and CSS.

Jabico Enterprises, Santa Cruz CA — Software Engineer

MAY 2017 – AUGUST 2018

- Designed and developed a cross-platform Ionic mobile application from inception through production deployment.
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PROJECTS

ApexCull (apexcull.com) — Founder & Engineer (2026–Present)

- Designed and developed an AI-powered SaaS platform for automotive photographers that automatically organizes vehicle images using computer vision and clustering techniques.
 - Built a full-stack application using Next.js, TypeScript, FastAPI, Python, Redis, Celery, Docker, and Terraform.
 - Integrated YOLO-based vehicle detection, appearance embeddings, color analysis, and clustering algorithms to automatically group related vehicle photographs.
 - Architected an asynchronous image-processing pipeline supporting batch uploads, AI inference, image quality scoring, and automated organization workflows.
 - Leveraged AI-assisted development workflows while maintaining ownership of system architecture, technical design, and product direction.
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AWARDS

Dev Week Austin Hackathon 2019 — 2nd Place

- Led a three-person team to 2nd place, delivering a real-time customer service chat app in 72 hours by prioritizing high-value features and preventing scope creep.
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EDUCATION

California State University East Bay — B.A. Psychology

SEPTEMBER 2014 – JULY 2016, Hayward CA

SKILLS

Languages: TypeScript, JavaScript, PHP, GraphQL, Python

Frontend: React, Redux, Context API, Next.js, HTML, CSS, Tailwind

AI & Data: YOLO, Computer Vision, Embeddings, Clustering, FastAPI, pgvector

Platform & Tooling: Playwright, Storybook, ESM, ESLint, Prettier, Docker, Terraform, Redis, Celery

Development: Git, Agile, CI/CD, Testing Automation

Leadership: Architecture, Cross-Team Delivery, Mentoring, Technical Strategy