

Ugur Armagan

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SUMMARY

I'm a software engineer with seven years of experience building applications across retail, healthcare, and internal operations. My strongest background is in React and TypeScript. I've built new products, rebuilt legacy systems, and improved how teams test, ship, and support software.

EXPERIENCE

Senior Software Engineering Consultant

Dotworks, Corp

September 2025 - Present, Chicago, IL

- Led hands-on React and TypeScript development of an internal laboratory platform for a global semiconductor equipment company, replacing a legacy on-premises system used by 120+ lab engineers and technicians.
- Owned discovery through implementation, including 14+ user interviews, requirements gathering, technical architecture, and hands-on development.
- Co-built React and Node.js delivery on Azure Container Apps with GitHub Actions build and test workflows, environment approvals, and Application Insights telemetry; standardized cloud identity with Entra ID.
- Used Claude Code and Codex daily in a spec-driven implementation workflow with human review gates.

Senior Frontend Developer

Costco

May 2024 - August 2025, Remote

- Served as technical lead for an eight-person team building a greenfield order and item management platform used by thousands of warehouse and sales managers. Owned the frontend foundation, including the rule engine, data-fetching conventions, component structure, and testing standards.
- Built a type-safe TypeScript rule engine that decoupled inventory validation from UI components and let engineers compose rules through a near-natural-language API. Documented the design and state machine in ADRs and RFCs.
- Built a backend-for-frontend that adapted an upstream API shared across teams into a focused, typed REST/JSON contract consumed by both frontend teams.
- Built the data layer with TanStack Query and TanStack Router, using optimistic updates, intent preloading, parallel loaders, cache warming, and aggressive pre-fetching to bring perceived latency under 100ms.
- Replaced scattered local state with a unified Zustand store, enabling transactional Save All behavior, immediate client-side validation, deferred persistence, and fewer unnecessary re-renders.
- Established testing standards across React Testing Library, Jest, Storybook, and Playwright, and used OpenTelemetry traces and performance alerts to investigate slow paths and support production troubleshooting.
- Partnered with Product leadership to evaluate roadmap feasibility and turn ambiguous requirements into architectural specifications.
- Mentored engineers through pair programming, targeted feedback, and code review; two mentees were promoted to mid-level.

Front-End Developer

Livefront

March 2023 - December 2023, Remote

- Rebuilt Great Clips' public online check-in flow from the ground up in nine months with a two-person team, using Next.js, React, and TypeScript.
- Built reusable, accessible controls with keyboard and screen-reader support, and maintained the shared React design system and component library used by both the check-in application and the Great Clips marketing site.

Software Engineer II

United Healthcare

November 2021 - March 2023, Chicago, IL

- Led development of a personalized React and Redux dashboard on United Healthcare's main portal, serving hundreds of thousands of daily users, while setting component architecture and documentation conventions for junior developers.
- Cut local development build times by 88% by upgrading to Webpack 5 and enabling persistent filesystem caching.
- Mentored junior engineers through code review, developed team design patterns and standards, and ran weekly technical sessions on React Concurrency, React Query, and Playwright.
- Used Datadog dashboards and traces to investigate production behavior and frontend performance.

Software Engineer

United Healthcare

July 2021 - November 2021, Chicago, IL

- Led an Angular-to-React migration that cut page-load time by 70% by removing accumulated legacy bloat.
- Reworked the local workflow for running multiple microservices, cutting build times by 20%.

Software Engineer

Epsilon

July 2019 - July 2021, Chicago, IL

- Built and operated Node.js and TypeScript REST API services at 99.99% uptime, containerized with Docker and deployed through CI/CD on Kubernetes.
 - Raised PostgreSQL throughput by 60% through query optimization and strategic indexing.
 - Set technical direction and engineering standards for a new team, establishing agile workflows and SOLID principles.
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PROJECTS

SubmitFast

submitfast.io/ • June 2026 - Present

- Built an applied-AI product that turns recruiter call notes, a candidate resume, and a job description into a branded submission package with an executive summary, evidence-backed fit narrative, and honest gap analysis.
- Created an automated prompt quality gate combining deterministic fabrication and malformed-output checks, an LLM judge scoring against a fixed rubric, and adversarial prompt-injection cases.
- Built the generation flow with the Anthropic SDK and structured, schema-validated output, returning a typed package rendered directly by the UI while streaming model progress to the screen.
- Deployed the application on Cloudflare Workers with Neon Postgres, R2 storage, Google OAuth, and rate-limited public links.

Compass - Open-Source Calendar

Maintainer • github.com/SwitchbackTech/compass • February 2026 - Present

- Maintains a keyboard-driven weekly planner that syncs with Google Calendar in a TypeScript monorepo.
- Authored a framework-agnostic TypeScript interaction engine for calendar dragging, resizing, snapping, edge auto-scroll, and overlap layout, connected to React through a thin adapter.
- Built real-time Google Calendar synchronization with webhooks, sync tokens, recurrence resolution, and Server-Sent Events; tested the application with Jest, React Testing Library, MSW, and Playwright under Biome and GitHub Actions CI.

EDUCATION

Bachelor of Science in Computer Science

Northeastern Illinois University • Chicago, IL • 2018

SKILLS

AI Engineering: Anthropic SDK, structured output, Zod, eval harnesses, LLM judge evaluation, adversarial testing, Claude Code, Codex

Cloud, Delivery & Observability: Azure, AWS, Cloudflare, Application Insights, OpenTelemetry, Datadog, GitHub Actions, CI/CD, Docker, Kubernetes

Languages, Frameworks & Data: TypeScript, JavaScript, React, TanStack Start, Node.js, Next.js, TanStack Query, TanStack Router, Zustand, REST APIs, PostgreSQL

Testing & Engineering Practices: Playwright, React Testing Library, Jest, MSW, Storybook, accessibility testing, testing strategy, code review, ADRs, RFCs, architecture standards
