

Nhan T. Nguyen

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SUMMARY

Software Engineer with 6 years in TypeScript, React, and GraphQL, and backend in Java/Spring Boot, Node and Python.

EXPERIENCE

Software Engineer III, JPMorgan Chase

Atlanta, GA / Mar 2023 — Jun 2026

Chase Card Platform — Customer browsing + Marketer tooling

- Owned end-to-end delivery of customer-facing and internal platform features across 10+ production releases, partnering with product managers, designers, QA, and backend teams from technical design through deployment.
- Designed and implemented reusable React architecture with Redux Toolkit and RTK Query, standardizing data-fetching patterns across 8+ features and improving maintainability across multiple product teams
- Optimized application performance through lazy loading, memoization, state management cleanup, and API caching, reducing redundant API calls across key user workflows and improving responsiveness for high-traffic pages.
- Built a configurable approval workflow with role-based authorization, reusable workflow components, and multi-step state management, supporting 6+ business teams and 6+ approval scenarios.
- Designed reusable frontend architecture using React, Redux Toolkit, and RTK Query to improve maintainability and enable faster feature delivery across multiple product teams.
- Migrated selected application state from Redux to React Context where global state management was no longer needed, reducing complexity and aligning the architecture with evolving business requirements.

Rewards Earning Engine — Points & Offers

- Built Java/Spring Boot backend business logic for rewards, promotions, and customer offers, applying OOP design patterns and PostgreSQL data modeling within a system where core calculations ran on mainframe banking architecture
- Developed RESTful Spring Boot micro-services for rewards and offer management, exposing APIs consumed by downstream platforms and enforcing business validations, eligibility rules, and versioned promotional logic via Spring Data JPA/Hibernate
- Modeled promotion eligibility, offer lifecycle, and validation rules to support configurable business requirements while maintaining backward compatibility with existing rewards processing systems
- Provisioned and deployed services to AWS using Infrastructure as Code (Terraform/CloudFormation), creating and managing environments across development, QA, and production while supporting CI/CD deployment pipelines.

Software Engineer, Hawk Ridge Systems

Dallas, TX / Jan 2020 — Feb 2023

- Built customer-facing e-commerce features for a B2B platform selling 3D scanning, 3D printing, and engineering solutions, supporting 50+ partner/vendor products across product discovery, cart, checkout, and order flows
- Implemented scalable React and Next.js experiences across 12+ product and checkout workflows, translating product requirements into reusable frontend features with designers and backend engineers.
- Defined GraphQL integration patterns across 3 core commerce data domains: product catalog, pricing, and inventory, improving data reliability while reducing frontend complexity.
- Improved e-commerce performance through lazy loading, memoization, client-side caching, and API request optimization, reducing redundant product/cart data fetching by 30%.
- Built a real-time customer support chat widget using Socket.io, handling connection lifecycle, message delivery, and reconnection on the React/TypeScript frontend.

PROJECTS

Studio Agent ([Demo](#) / [Github](#))

- Architected Agent Studio, an AI agent platform where agents are configured through the database instead of code, supporting custom prompts, models, tools, and execution limits. Built with Python, FastAPI, PostgreSQL, and LangGraph.
- Built a LangGraph-based execution engine that plans tasks, selects tools, executes parallel tool calls, and recovers from failures through iterative reasoning.
- Developed a LangGraph execution engine that plans tasks, selects tools, runs parallel tool calls, and recovers from failures through iterative reasoning.
- Designed tracing for every agent run, step, tool call, latency, input/output, and error, making workflows easier to inspect, replay, and debug.
- Built a real-time execution UI that streams agent planning, tool execution, retries, reasoning summaries, and progress throughout each workflow.
- Reduced token usage by optimizing context management, prompt caching, and tool result handling, helping long-running agent workflows stay fast and cost-efficient.

Spacing UI ([Demo](#) / [Github](#))

- Published a TypeScript-first React component library with reusable, headless components focused on accessibility, flexibility, and developer experience.
- Built accessible components using semantic HTML, keyboard navigation, ARIA patterns, and WCAG 2.1 AA-aligned practices.
- Built modular, tree-shakeable packages and documented components with Storybook, enabling seamless integration into React applications while reducing duplicate UI code.
- Established automated testing, linting, and CI workflows to maintain code quality and ensure reliable releases as the component library evolved

EDUCATION

Bachelor of Science in Computer Science

Arlington, TX

The University of Texas at Arlington (Aug 2015 — May 2019)

CERTIFICATIONS

AWS Certified Cloud Practitioner & Developer (Mar 2024 – Mar 2028)

SKILLS

Frontend: React, TypeScript, Next.js, Redux Toolkit, RTK Query, TanStack Query, GraphQL, Storybook, Tailwind CSS, React Native

Backend: Python, FastAPI, Java, Spring Boot, Node.js, PostgreSQL, REST APIs, GraphQL

AI: LangGraph, LangChain, Anthropic API, OpenAI API

Testing: Jest, React Testing Library, Playwright, Pytest

Tooling & DevOps: Webpack, Vite, ESLint, Docker, GitHub Actions, AWS