

Andrew Nguyen

Houston, Texas | <https://www.linkedin.com/in/andrewndev/> | <https://atnguyen.dev> | andynguyen1992@gmail.com

Technical Skills

Front-End: React | Next.js | TypeScript

Back-End: C++ | C# | PHP | Python | PowerShell

Libraries: | TanStack Query | React Joyride | Tailwind CSS | GSAP | Bootstrap | Shadcn UI

Databases: SQL | SQLite | MySQL | MongoDB | PostgreSQL

APIs & Integration: REST API | Ignition WebDev APIs | Resend API | Supabase | Firebase | Clerk

DevOps & Tools: GitHub | Vercel | Azure DevOps | Azure Pipelines | Jira | IBM Connect: Direct | XAMPP | PuTTY | VMware

IDEs & Design Tools: Visual Studio | Visual Studio Code | Ignition Exchange SCADA | Insomnia | Figma | Whimsical | Vite

Office Tools: Microsoft Word | Excel | PowerPoint | OneNote | SharePoint | Slack | Teams

Education

University of Houston Downtown, Houston, TX

June 2016 – August 2020

Bachelor of Computer Science

Honors: Magna Cum Laude, Dean's List Fall 2019

Work Experience

Consulting Confidential, Remote

August 2025 – Present

Software Developer, Full Stack

- Led end-to-end software consulting for a client-facing business application, translating stakeholder needs into technical requirements, product workflows, data models, and implementation roadmaps.
- Owned client discovery, requirements gathering, UX flow definition, and delivery planning across membership management, payments, reporting, user access, and operational admin workflows.
- Designed and developed a full-stack web platform using Next.js, React, TypeScript, Supabase, PostgreSQL, Clerk, Tailwind CSS, shadcn/ui, server actions, API routes, and CSV reporting.

CodeLink Limited, Remote

December 2024 – May 2025

Software Developer, Frontend

- Delivered frontend features from Jira tickets using Next.js and Tailwind CSS, maintaining transparent communication through daily standups to report progress, escalate blockers, and ensure alignment with sprint goals and team objectives.
- Developed interactive user interfaces and dynamic components while actively engaging in cross-functional meetings to coordinate with QA teams, designers, and backend developers for seamless feature integration and testing.
- Collaborated with team members during retrospective meetings to identify potential roadblocks early, share technical knowledge, and contribute to problem-solving discussions that enhanced team efficiency and project success.

General Motors, Austin Texas

April 2022 – August 2024

Software Engineer, Full Stack

- Redesigned and modernized Cimplicity SCADA HMI interfaces using Cimplicity Basic and SQL Server, improving real-time monitoring of plant vitals (water, energy, and environmental metrics) across manufacturing sites.
- Refactored and standardized SCADA configurations, reducing technical debt and enhancing system maintainability, reliability, and scalability for production-critical applications.
- Upgraded software configuration and architecture from Windows Server 2012 to 2022, enabling automated provisioning of Cimplicity software and packages across VMware environment while reducing setup time by 90%.

HP Inc., Houston Texas

April 2020 – April 2022

OS and Software Program Experience Support Manager

- Directed software and OS support strategy for commercial and consumer product lines, defining warranty policies, customer FAQ documentation, and call center workflows to improve customer experience and reduce support costs.
- Led cross-functional support initiatives through Agile and SDLC best practices, aligning engineering, product, and support teams to deliver scalable solutions, meet launch deadlines, and resolve technical challenges.
- Developed and executed support strategy for Ubuntu workstation software packages, creating documentation and readiness plans for commercial customers adopting emerging Linux platforms, ensuring smooth deployment and long-term maintainability.

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Work Project Experience

Consulting Confidential - Membership Management & Reporting Platform

August 2025 – Present

Full Stack Developer

- Built a secure membership operations platform with role-based authentication, member lifecycle tracking, payment history, profile management, sensitive data handling, and administrative dashboards using Next.js App Router, TypeScript, Supabase, and Clerk.
- Developed financial and operational reporting features including membership reports, payment summaries, activity logs, CSV exports, pagination, filtering, search, and dashboard analytics to improve client visibility into business data.
- Implemented scalable full-stack workflows for member records, Food tracking, Deathcase Case/Payment management, Appeals, file uploads, activity auditing, and database-backed business logic with reusable components and typed server-side data access.

CodeLink - Web Application Onboarding Tutorial

December 2024 – January 2025

Frontend Developer

- Designed and implemented an interactive onboarding tutorial using React Joyride and Next.js, creating intuitive user guidance flows that reduced user confusion and increased feature adoption rates for new platform users.
- Integrated Zustand for state management and TanStack Query for MongoDB data operations, enabling real-time tracking of user onboarding progress and allowing users to resume tutorials from their last completed step, ensuring seamless continuation across sessions.
- Developed responsive onboarding components using Tailwind CSS and TypeScript, ensuring cross-device compatibility and type safety while customizing the tutorial library to match project design specifications and user interface requirements.

General Motors - Deployment and Automation Pipeline

June 2024 – August 2024

Backend Developer

- Designed YAML pipelines to automate script execution for software installation on targeted servers, ensuring precise deployment of specified software versions.
- Scoped out and automated manual processes, leveraging automation tools to minimize errors and enhance operational efficiency.
- Integrated version control using Azure DevOps and GitHub, facilitating accurate software versioning and maintaining consistency across server environments.

Project Experience

NFC-Enabled Birthday Postcard Gallery Web Application

October 2025 – October 2025

Full Stack Developer

- Developed a personalized, NFC-enabled 3D birthday gallery web application for my partner using Next.js 15, React 19, TypeScript, Tailwind CSS, Three.js, GSAP, Motion, and Clerk, featuring an authenticated celebration page, interactive photo dome, animated UI, confetti effects, and background music.
- Programmed an NTAG215 NFC sticker embedded in a physical postcard with the deployed HTTPS project URL, enabling users to tap the card with an NFC-enabled iPhone or Android device and instantly launch the interactive web experience without installing an app.
- Created and documented an open-source, reusable project template with centralized TypeScript content configuration, protected routing, shared audio controls, Vercel deployment support, and customizable media, messaging, gallery images, and authentication settings for other users to adapt.