Quang Le

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[LinkedIn](#) | [GitHub](#) | [Portfolio](#)

Key Projects / Portfolio Highlights

- **m4trix** – Offline-first Next.js + Electron + PWA with agentic multi-agent playground (unlimited agents limited by LLM APIs, custom personas, scenes, Director AI orchestration, emergent interactions), IndexedDB state, caching/sync.
  Live: https://m4trix.vercel.app/ | **GitHub:** [m4trix](#)
- **Vietnam Rising / Job Board** – Jamstack app with Neubrutalism-inspired electric graphic UX designed entirely in pure CSS for lightweight, responsive, high-impact layouts and fast static generation on Vercel.
  Live: https://loteknowledg.github.io/vietnam-rising/#/hcmc | **GitHub:** [vietnam-rising](#)
- **Online MP4 Video Joiner** – Browser-based tool using FFmpeg.js / FFmpeg.wasm for client-side video concatenation/merging (no server needed), demonstrating WebAssembly media processing and performance optimization.
  Live: https://mp4-joiner.vercel.app/ | **GitHub:** [mp4-joiner](#)

Summary

Experienced full-stack developer with 20+ years in software engineering, specializing in scalable React.js applications, .NET C# backends, and modern web architectures including Jamstack, Next.js, and offline-first PWAs. Proven track record leading technical efforts in agile environments, mentoring engineers, creating maintainable systems, and optimizing performance. Strong in Azure cloud deployments, relational databases like SQL Server, Python scripting, LLM integrations, and architectural principles. Committed to delivery, code reviews, and staying current with technologies like CI/CD pipelines, DevOps practices, TypeScript, shadcn/ui, and AI-driven features.

Core Skills

Frontend: React.js, TypeScript, JavaScript (ES5/ES6+), Vanilla JavaScript, Recoil, Redux, Next.js, Material-UI, Tailwind CSS, shadcn/ui, AngularJS, ExtJS, jQuery, HTML5, CSS3, Canvas, Jamstack, PWA

Backend: Node.js, Python, REST APIs, ASP.NET MVC, .NET Core, C#, Java, Web Services, WCF, SOAP

Databases: SQL Server, MongoDB, CosmosDB (Proficient in RDBMS query optimization and schema design; adaptable to PostgreSQL)

Cloud & DevOps: Azure (including Azure Functions, CI/CD), AWS, Docker, Terraform, Cloudflare

Other: Agile/Scrum, Git, Visual Studio, Miro, Lucidchart, Visio, Puppeteer, D3.js, Nivo.js, react-globe.gl, GIS, Figma, React Testing Library, JEST, React Router, WCAG, LLM Integration, AI/Chatbot Development, Electron, IndexedDB, FFmpeg.js / WASM

Professional Experience

nowon, Remote

Tech Lead / Full-Stack Developer — *March 2025 – Present*

- Developed and deployed **m4trix**, a Next.js-powered offline-first/local-first application with Electron desktop support and full PWA capabilities, using IndexedDB for robust local state management, caching, background sync, and an agentic playground allowing unlimited AI agents (practical limits from LLM provider APIs) with custom personas, scene writing, Director AI orchestration, and emergent multi-agent interactions.
- Built **vietnam** job board (Jamstack architecture) at https://loteknowledg.github.io/vietnam-rising/#/hcmc, featuring a bold Neubrutalism-inspired electric graphic UX designed entirely with pure CSS for lightweight, high-impact, responsive layouts and fast static generation on Vercel.
- Created an online MP4 video joiner tool using FFmpeg.js / FFmpeg.wasm for client-side video concatenation/merging directly in the browser (no server upload required), demonstrating WebAssembly-based media processing and performance optimization.
- Integrated LLM models and built AI-driven features (including chatbot coordination and prompt engineering) using Python and API integrations to enhance functionality and user interactions.
- Architected client-side offline strategies (IndexedDB persistence, PWA manifest/Service Workers) and performant UIs for variable network conditions and cross-device use.
- Mentored on modern patterns (React/Next.js hooks, TypeScript, offline-first design, custom CSS systems, agentic AI orchestration) and conducted code reviews for maintainable code.
- Created architecture diagrams, documentation, and standardized tooling for efficient development and deployment.

Tech Stack: React.js, Next.js, TypeScript, Python, shadcn/ui, Electron, IndexedDB, PWA, Vercel, Jamstack, Tailwind CSS, Node.js, LLM APIs, FFmpeg.js / WASM, AWS, Figma, Terraform

Nike (Infosys), Remote

Tech Lead — *Jan 2024 – Jan 2025*

- Designed and developed a React-based supply chain data visualization dashboard for risk analysis, applying object-oriented principles and data structures for efficient rendering.
- Integrated multiple data sources into a centralized warehouse for interactive charts and geospatial mapping, ensuring maintainable and highly tested code.
- Led the frontend architecture, focusing on performance optimization, evolvability, and peer code reviews to uphold best practices.
- Implemented rich visualizations using D3.js, Nivo.js, and react-globe.gl, while mentoring junior engineers on React patterns and agile collaboration.
- Developed Software Design Documentation (SDD) including application architecture diagrams to define and standardize the technology stack.
- Participated in agile ceremonies, pull requests as both reviewer and reviewee, and emphasized pragmatic application of new tools for client value.

Tech Stack: React.js, JavaScript, D3.js, Nivo.js, react-globe.gl, Tailwind CSS, GIS, AWS, AstraDB, Recoil, Figma, Terraform

Lennar (Infosys), Remote
Tech Lead — *June 2021 – Nov 2023*

- Built the Building Plans Repository, a React-driven collaboration platform with strong API design for efficient data querying and mutation from Azure-hosted services.
- Architected a scalable frontend and developed reusable UI components, applying design patterns for maintainability and evolvability.
- Led team in agile development, mentoring engineers on C#/.NET integrations, code reviews, and CI/CD pipelines in Azure.
- Created design artifacts like software models and diagrams using Lucidchart, fostering open collaboration in a fast-paced environment.
- Ensured systems were highly tested with React Testing Library and JEST, while driving commitment to delivery and problem-solving for client needs.

Tech Stack: React.js, TypeScript, JavaScript, Node.js, Azure, Azure Functions, CI/CD, CosmosDB, Redux, Figma, React Testing Library, JEST, React Router

Macy's Technology (Cognizant), Atlanta, GA
Software Developer, Tech Lead — *April 2019 – June 2020*

- Developed a hybrid mobile app for in-store shoe availability tracking, leveraging .NET C# for backend services and React for UI.
- Built an asynchronous store and UI with React and Material-UI, applying algorithms for data handling and OO principles.
- Used Vanilla JavaScript for client-side utilities to reduce dependency bloat and optimize performance.

- Created a Node-based proxy for REST/SOAP APIs for flexible querying of inventory data.
- Mentored junior developers on agile practices, code reviews, and modern security models in API development.
- Collaborated in peer reviews and pull requests, promoting knowledge sharing on development tools and patterns.

Tech Stack: React.js, Material-UI, Node.js, JavaScript, MERN, Docker, Redux, Figma, React Testing Library, JEST, React Router

Novelis, Buckhead, GA
Senior Software Engineer — *Aug 2018 – Feb 2019*

- Led development of MES SPA using Angular and .NET backend, with Node.js for API layers.
- Built a React-based test automation runner with Puppeteer.
- Designed maintainable systems with strong architectural principles, including security and deployment considerations.
- Participated in code reviews and mentored on problem-solving with data structures and algorithms.

Tech Stack: React.js, AngularJS, Node.js, .NET Core, JavaScript, Puppeteer

Transcore, Norcross, GA
Senior Software Engineer — *Dec 2015 – Aug 2018*

- Developed SPA for Smart Traffic Management using ASP.NET MVC and frontend frameworks.
- Created a web-based pixel graphics editor using Vanilla JavaScript and Canvas API, with D3.js for data visualization.
- Applied OO design patterns and basic algorithms for efficient traffic data processing.
- Collaborated in agile teams, contributing to code reviews and architectural diagrams.

Tech Stack: TypeScript, AngularJS, Node.js, ASP.NET MVC, JavaScript, WCAG

Premier Logic, Alpharetta, GA
Software Consultant — *Aug 2015 – Nov 2015*

- Integrated American Express API for Priority Payment Systems using Node.js and Web API.

Tech Stack: TypeScript, AngularJS, Bootstrap, Node.js, Web API

Havenbrook Homes, Duluth, GA
Software Developer — *Aug 2013 – Nov 2015*

- Built a proprietary real estate management platform with ASP.NET MVC and SQL Server.
- Optimized database queries and schemas for performance.

Tech Stack: ExtJS, ASP.NET MVC Web API, C#, Entity Framework, SQL Server

AT&T, Alpharetta, GA
Software Developer –– *May 2013 – Aug 2013*

- Upgraded onboarding tools and RESTful services using ASP.NET MVC.

Tech Stack: ASP.NET MVC, Entity Framework, REST

Greenway Medical, Alpharetta, GA
Software Developer –– *Feb 2013 – May 2013*

- Built an HR platform for Walgreens with WCF and Silverlight, deployed on Azure.
- Worked with SQL Server for query construction and optimization.

Tech Stack: Azure, Silverlight, SQL Server, MEF, WCF, Entity Framework

Snapfinger, Atlanta, GA
Senior Software Engineer –– *Feb 2011 – Dec 2012*

- Built RESTful web services for mobile devices and enhanced online ordering with ASP.NET MVC and C#.

Tech Stack: WCF, REST, JSON, MSMQ, ASP.NET MVC, C#, JavaScript

Parkmobile, Vinings, GA
Software Developer –– *June 2010 – Jan 2011*

- Developed citation payment portal integrated with backend systems using WCF and ASP.NET MVC.

Tech Stack: WCF, ASP.NET MVC, jQuery, AJAX

Rem2, Sandy Springs, GA
Software Developer –– *Feb 2008 – Mar 2010*

- Built financial dashboards, activity tracking, and kiosk apps with ASP.NET MVC and MSSQL.

Tech Stack: OLAP, MSSQL, ASP.NET MVC, JavaScript

Abol, Woodstock, GA
Software Engineer –– *June 2007 – Jan 2008*

- Built dynamic UIs with Vanilla JavaScript and AJAX for shipping software.

Tech Stack: OLAP, MSSQL, ASP.NET MVC, JavaScript

E Strategic Solutions, Atlanta, GA

Tech Lead, Software Architect — *Aug 2003 – Jan 2007*

- Designed a multi-tenant restaurant ordering system and Google Maps mashups using ASP.NET and C#.
- Entire frontend interactivity written in Vanilla JavaScript, long before libraries like React.

Tech Stack: ASP.NET, C#, JavaScript, XML, Web Services, Google Maps API

Education

Bachelor of Science in Computer Science

University of Georgia, Athens, GA