

Minh Nguyen

Senior Full Stack Developer

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Senior full stack developer, Angular and .NET. I led the replacement of Orange County's 20-year-old property tax system and have been its sole developer since launch — the system of record for 886,000 secured property tax bills totaling \$9.7 billion, with no downtime across four statutory deadline surges. I build for the failure cases: every payment it takes is reconciled against the processor daily.

EXPERIENCE

County of Orange

2022 — Present

Senior Application Developer, Orange County IT · Jan 2023 — Present

Senior Application Developer, Collabera (contracted to SAIC) · May 2022 — Jan 2023

Supporting the Orange County Treasurer-Tax Collector, and applications across multiple county agencies.

- **Led the replacement of a 20-year-old classic ASP property tax system** with Angular 20 and .NET 9. Live at taxbill.octreasurer.gov, serving 886,000 secured property tax bills totaling \$9.7 billion. The legacy application is fully retired.
- Delivered phase one in roughly six months with a two-person team, against a statutory deadline — California property tax is delinquent after December 10 and the date does not move. **Sole developer since launch:** support, maintenance, and all new features.
- **Designed exactly-once payment handling in four independent layers** — pre-submit validation against both county and processor records, an order number made idempotent by a database unique constraint rather than a check-then-insert, a scheduled sweep for gateway timeouts, and end-of-day reconciliation against the processor's transaction list. The legacy system had allowed duplicate payments on the same parcel bill.
- **Migrated payment processors** with no dual-running period, cut over inside an existing nightly maintenance window and timed after the December deadline. Diagnosed undocumented malformed callbacks in production and recovered the affected transactions by backfilling from county records keyed on our own order number.
- **Architected and built Tax Bill Admin**, an internal service that is the payment transaction system of record, the payment request signer, and the staff control plane — Entra ID single sign-on, role-separated permissions, every action audited. Replaced a cross-department dependency: staff previously needed a developer from another county department to open or close a payment window.
- **Preserved undocumented legacy tax logic rather than rewriting it.** Hundred-line SQL scripts encoding property tax law, with no surviving authors, moved behind stored procedures — unchanged behavior, maintainable seam.
- Sustained four statutory deadline surges with no downtime — roughly 10,000 payments per day against a 100–300 baseline — using k6 load testing and response caching.
- Migrated the application from Angular 16 to **Angular 20, zoneless**, with signals and standalone components. Built the Azure DevOps CI/CD pipelines, NuGet feeds, and permissions from scratch.

Partie Partners LLC

Nov 2020 — May 2022

Full Stack Developer · Angular, ASP.NET Core, SQL Server

Consumer gaming platform connecting players worldwide. Team of six.

- **Owned the Agora real-time video integration** end to end. Built the server side — token generation and background access/refresh exchange that kept participants from being dropped when tokens expired — and mapped platform user identity onto Agora sessions so participants were attributable. Sessions up to 25 people.
- **Built server-side audience filtering for OneSignal notifications**, bounding fan-out on app-wide sends by a configurable recency window rather than broadcasting to every registered user.
- Full stack feature work across the Angular client and .NET services. Worked within an existing Kubernetes and Azure DevOps environment — modified pipeline definitions and debugged services in-cluster.

CCC Information Services

Apr 2018 — Jul 2020

Software Development Engineer

- Built and maintained an internal MEAN-stack web application the engineering team used daily to compose queries, trigger builds, and report results on a dashboard.
- Developed .NET automation frameworks for Android and iOS using Appium.
- Wrote MS Test coverage for APIs and microservices.

Schneider Electric

Mar 2016 — Apr 2018

Software Automation Engineer

- Built PowerShell and Python utilities automating routine engineering work.
- Maintained a headless Node.js framework and a coded UI suite.
- SQL Server development and troubleshooting; managed vCloud test environments.

SKILLS

DAILY	Angular · TypeScript · C# / .NET · SQL Server · Azure DevOps
PRODUCTION	Kubernetes · Node / Express · MongoDB · RxJS · CI/CD · microservices · payment integrations
EARLIER	React · Appium · PowerShell · Python

EDUCATION

BS Computer Science, minor in Information Systems
California State University, Fullerton · December 2015

SELECTED EARLIER PROJECTS

Real-time chat — Node, Express, MongoDB, Socket.IO, Cloudinary
github.com/Hoang-Minh/chat_app

Travel blog with mapping — MERN, Mapbox
github.com/Hoang-Minh/mern_travel_blog