

# Abel Mak

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## SUMMARY

Full-stack engineer with 9+ years shipping React and .NET applications at enterprise scale (Visa, Cisco, FM Global). Recently delivering production platforms end-to-end using Claude Code—combining enterprise architecture rigor with AI-assisted development to ship faster.

## PROFESSIONAL EXPERIENCE

### Full Stack Developer, **Factory Mutual (via TekSystems)**

Apr 2025 – Feb 2026

- Designed **HotChocolate GraphQL endpoints** that moved client-side Hasura queries behind the .NET backend for **server-side data composition**—centralizing authorization, logging, and filtering into a single response
- Resolved **Veracode SSRF vulnerabilities (CWE-918)** by migrating URLs to the **IOptions<T>** pattern; refactored legacy handlers flagged by **SonarQube** for cognitive complexity using guard clauses and extracted methods
- Rebuilt the team's shared **React component library** by merging two legacy codebases into a single **NX monorepo** with modernized dependencies, TypeScript fixes, and a **Storybook** application replacing fragmented demo pages

### Freelance Full Stack Developer, **ACR Automotive**

Aug 2025 – Feb 2026

- Architected and delivered a production B2B auto parts platform solo using **Claude Code—8-table PostgreSQL** schema with **Row Level Security**, 32 API routes, 23-component design system, and bilingual Spanish/English interface on **Next.js 16 / React 19 / Supabase**
- Engineered an atomic **Excel import/export pipeline** with a 3-stage workflow (validate → preview → execute), a **22-rule ValidationEngine**, snapshot-based **rollback with conflict detection**, and a PostgreSQL RPC transaction function ensuring zero partial imports across 3 related tables
- Designed a **6-stage cascade search algorithm** with **PostgreSQL trigram indexes**, early termination, and batch image fetching—enabling counter staff to instantly cross-reference competitor part numbers to catalog equivalents

### Full-Stack .NET / React Engineer, **Relativity Holdings**

Aug 2024 – Jan 2025

- Built **25+ compliance evaluation forms** end-to-end across **.NET 7** and **React** for the **IBHS FORTIFIED** building certification platform—covering 3 building programs and authoring **74% of the V2 domain layer**
- Designed and built a reusable **comment template system** from scratch so auditors could apply saved feedback across evaluations—supporting **4 product lines** with feature-toggle rollout and role-based permissions
- Built a **42-rule validation engine** that enforced different requirements based on hazard type, certification level, and building features—doubling as a **real-time progress tracker** on every auto-save

### Design (Senior Software) Engineer, **Cisco**

Mar 2021 – Nov 2024

- Led development of a role-based **CMS** using **React and Next.js** enabling teams to publish, version, and manage component documentation alongside live design resources
- Built **asset management system** with **AWS S3, DynamoDB, and Lambda** for versioned file storage, secure access controls, and automated artifact processing

### Software Engineer, **VISA**

Feb 2017 – Feb 2021

- Developed accessible, reusable **React** components for the **Visa Product Design System (VPDS)**, adopted across multiple internal payment application teams
- Built interactive prototypes enabling executives to evaluate new payment product concepts before committing to full development

## EDUCATION

**Bachelor of Science in Computer Engineering** — University of Florida, Gainesville, FL — 2016

## TECHNICAL SKILLS

**Languages:** TypeScript, JavaScript, C#

**Frontend:** React, Next.js, Tailwind CSS, Storybook, Zod

**Backend:** .NET 8, EF Core, GraphQL (HotChocolate), PostgreSQL, SQL Server, Supabase

**Cloud & CI/CD:** Azure, AWS, Vercel, GitHub Actions

**Tools:** Claude Code, GitHub Copilot, Playwright