

Woochang Chang

SOFTWARE ENGINEER | REACT, NEXT.JS & TYPESCRIPT

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SUMMARY

Software engineer with an M.S. in Computer Science and hands-on React/Next.js, API, and Flutter experience. Built ordering, payment, and dispatch workflows with attention to state consistency, operational constraints, and failure recovery.

EXPERIENCE

Software Engineer | Full-time

Dec 2025 - May 2026

Circle POS | Springfield, VA

- Built React/Next.js ordering and staff applications connecting bilingual Android tablet menus, table-specific carts, and fulfillment in an internal-test product.
- Integrated Stripe Checkout with PostgreSQL-backed orders, preserving table identity and notes while tracking payment separately from kitchen preparation.
- Implemented CloudPRNT polling and ticket-retrieval endpoints, carrying table details and kitchen notes from dispatch records into formatted print jobs.
- Separated tablet layout/media caching from cloud refresh and resolved signed URLs at runtime, keeping cached content reusable when refresh failed.

Software Engineer | Full-time

Mar 2025 - Nov 2025

World Bankcard Services | Fairfax, VA

- Evaluated adapting Hanin Taxi's rider, driver, and operator workflows for delivery in World Bankcard's restaurant application; the integration remained exploratory.
- Validated booking, assignment, and trip-state transitions across three interfaces during internal testing; reviewed implementation issues and coordinated fixes with the team.

Founder | Product & Software Development

2023 - Feb 2025

Hanin Taxi | New Jersey / Remote

- Designed company-round-robin dispatch preserving each fleet's driver queue; implemented regional pickup restrictions to reflect taxi companies' operating boundaries.
- Developed the React admin driver-location map and manual dispatch workflows; contributed API and Flutter code across the team-built platform.
- Tested 5- and 10-second rider-map refresh intervals and selected Mapbox for cost constraints; connected driver navigation to Waze and Google Maps.
- Recruited two engineers and a designer, reviewed code, and delivered the internally tested platform as my M.S. capstone; World Bankcard's interest led to a full-time engineering role.

SELECTED ENGINEERING PROJECTS

Hanin Taxi & Restaurant Ordering | Reliability & Testing

Oct 2026

AI-assisted demo restoration | [Taxi demo & code](#) | [Restaurant demo & code](#)

- Implemented company-round-robin taxi dispatch with queue-order, eligibility, and concurrent-matcher checks; verified 50 backend tests, 14 Flutter tests, and 18 desktop/mobile browser cases in CI.
- Added server-priced restaurant checkout, signed Stripe webhooks, and store-scoped staff access; verified 113 policy tests plus deployed price-tampering, test-card payment, expiry, and duplicate-event checks.

TECHNICAL SKILLS

Primary	TypeScript, JavaScript, SQL, React, Next.js
API & Mobile	C# / ASP.NET Core, Dart / Flutter, REST APIs, SignalR
Data & Services	PostgreSQL, Supabase Auth, Stripe Checkout, CloudPRNT, Capacitor
Testing & CI	Git, GitHub Actions, Playwright, xUnit, Flutter tests

EDUCATION

M.S., Computer Science | Binghamton University, Binghamton, NY

Dec 2024

B.S., Computer Science & Applied Mathematics | University at Albany, Albany, NY

Dec 2021