

Jin Oh

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Experience

Mircom Group of Companies

Vaughan, ON

Software Developer

February 2018 – Present

- Modernized Legacy Hardware Licensing System: Reverse-engineered an undocumented legacy Java Applet into a modern multi-platform solution (.NET API, C#, Flutter Web) interfacing with security dongles (WibuKey, CodeMeter). Increased data transfer success rate from 65% to 97% across modern web browsers. Migrated outdated CodeIgniter (PHP) web-app to modern web-app using React, Next.js, Material UI, TypeScript while keeping the same database structure, and hosted on AWS EC2 instance, significantly improving on user interface and user experience, and reducing load time by 32%
- Legacy Application Migration & Performance Optimization: System architected and migrated a legacy PHP/CodeIgniter web application to a modern React/Next.js/TypeScript stack on AWS EC2 while preserving schema integrity, reducing page load times by 32% and enhancing UX.
- Automated Enterprise Data Migration: Engineered a custom data pipeline to migrate 300,000+ complex legacy records from Joomla to WordPress, ensuring proper metadata restructuring with zero data loss.
- Internal AI Efficiency Tooling (SR&ED Automation): Spearheaded an AI-driven internal task-tracking platform using React, Next.js, Supabase, and Open WebUI (LLMs). Automated daily executive summaries and SR&ED tax credit reporting, eliminating manual spreadsheet workflows.
- Custom Enterprise Solutions & Stakeholder Collaboration: Developed custom WordPress plugins (training portals, automated certification, brochure ordering) by collaborating with Marketing, Training, and RMA departments.
- Closely worked with Product Management, QA, and other stakeholders to deliver high-quality, end user first software solutions
- Lead 90% of involved projects from designing system architecture, database design, development, deployment, and on-going maintenance.

GNK Holdings

Vaughan, ON

System Analyst

February 2016 – February 2018

- Developed eCommerce website using ASP.NET MVC, MS-SQL, and Authorize.NET for payment gateway and API
- Developed product price lookup software with barcode scanner SDK, HTML, jQuery, ASP.NET MVC, MS-SQL
- Developed online coupon system that customers can gift to their friends and redeem using generated barcode at the store
- Assisted setting up and troubleshoot IT hardware at warehouse and retail stores

Featured Startup Projects

Reoca | AI-Powered Real Estate & Professional Directory Platform

Toronto, ON

Solo Full-Stack Developer

May 2024 – Feb 2025

- **Full-Stack Architecture & Enterprise Scale:** Engineered an end-to-end real estate ecosystem (iOS/Android via Flutter, Web via React/Next.js) serving 100,000+ active Ontario property listings and managing 8,000,000+ metadata records with a robust PHP RESTful API and MySQL database.
- **Map Rendering & Spatial Query Optimization:** Reduced interactive map loading and rendering times to under 1.2 seconds across massive dataset overlays by implementing dynamic marker clustering, viewport bounds-based querying, and payload compression techniques (MapBox API, Google Maps API).
- **AI-Driven Property Intelligence Service:** Architected an automated property analysis engine integrating Gemini API with Statistics Canada and Google Places APIs to synthesize demographic, geographic, and point-of-interest data into structured pros/cons summaries for prospective buyers.
- **Production Deployment & API Ecosystem Integration:** Successfully published native mobile applications to both the Apple App Store and Google Play Store, orchestrating real-time data ingestion via VOW (Virtual Office Website) real estate data feeds alongside Firebase Authentication and Cloud Messaging.
- **Multi-Industry Professional Network:** Designed and implemented an integrated directory and matching workflow connecting homebuyers directly with verified realtors, mortgage specialists, real estate lawyers, and accountants.

Eatro | All-in-One Restaurant SaaS & Automated POS Platform

Toronto, ON

Solo Full-Stack Developer

Apr 2026 – July 2026

- **Multi-Tenant SaaS Architecture:** Architected and deployed an end-to-end restaurant management ecosystem consisting of customer ordering and admin portals (React, Next.js, Supabase, Vercel) alongside a dedicated restaurant operations Android app (React Native, Firebase, Supabase).
- **Automated Multi-Merchant Payouts (Stripe Connect):** Designed a complex payment architecture utilizing Stripe Connect and Webhooks to seamlessly process online transactions, capture funds, and automatically distribute payouts directly to merchant bank accounts while handling platform fee deductions.
- **Real-Time Order Alert & Tablet Operations:** Implemented real-time order dispatching using Web Sockets and Firebase Cloud Messaging, featuring instant audio-visual pop-up notifications on merchant tablets to ensure zero missed orders during peak kitchen hours.
- **Thermal Printer & Kitchen Workflow Automation:** Engineered automated receipt and kitchen ticket printing by directly interfacing restaurant Android tablets with thermal printers over Bluetooth and local Network protocols.
- **Comprehensive Operational Suite:** Built robust core operational features including pickup, delivery, and catering order workflows, employee time-tracking (clock-in/clock-out), and automated business analytics reports.

Velvet Studio | Salon CRM & Automated Booking Management Platform

Toronto, ON

Solo Full-Stack Developer

Feb 2026 – May 2026

- **End-to-End Salon Management SaaS:** Architected and deployed a specialized CRM and appointment booking platform tailored for beauty salons and solo stylists, streamlining client management and schedule orchestration.
- **Automated Client Engagement & Messaging:** Built an automated client tracking and notification workflow that triggers personalized booking reminders, confirmation alerts, and follow-up communications to reduce no-shows and increase client retention.

- Streamlined Scheduling & Calendar Engine: Implemented a real-time calendar and booking interface designed to handle complex stylist availability, multi-service durations, and automated schedule conflict resolution.
- Business Analytics & Client Tracking: Designed client profile management tools alongside reporting dashboards to track customer visit histories, preferred services, and sales analytics for salon owners.

Education

York University

Toronto, ON

Computer Science, BSc

September 2009 – April 2014

Certificates

Microsoft Certified Professional (E474-2195)

Software Development Fundamentals (E474-2196), November 2013