

# NICK AIRDRIE

Full Stack Software Engineer

416 985 8201

Toronto, ON

nick.airdrie@gmail.com

A results-driven **Senior Software Developer** with extensive experience architecting full-stack solutions and scalable platforms for millions of users. Proven success in **API design, distributed systems, and payment integration**. Highly skilled in building high-performance backends (**Node.js, MySQL**) and intuitive user experiences (**Angular, React**). Passionate about engineering tools that operationalize commercial relationships and drive business growth, with a specific interest in financial infrastructure and automation.

## SKILLS

### LANGUAGES & FRAMEWORKS

- Angular
- React/React Native
- Javascript/Typescript
- CSS/Sass
- Next.js
- Python

### BACKEND & DATA

- Node.js
- MySQL/PostgreSQL
- Python
- Redis
- REST API Design
- Stripe API & Webhooks

### INFRASTRUCTURE & DEVOPS

- Amazon Web Services (AWS)
- Firebase
- Docker
- Git
- CI/CD pipelines

## PROFESSIONAL EXPERIENCE

### Senior Software Developer – Full Stack @ Vretta Inc.

2020 – present

- **Scale & Architecture:** Architected and maintained a secure e-assessment platform serving **millions of students** across Canada. Engineered Node.js services to handle high-concurrency traffic spikes during standardized testing windows.
- **Feature Leadership:** Led the technical scoping and end-to-end development of real-time performance insight tools, utilized by thousands of teachers and provincial ministries to make data-driven decisions.
- **Optimization:** Debugged production issues across the stack and optimized SQL queries/API responses, significantly streamlining test-taking and grading workflows for hundreds of thousands of concurrent users.

### Web Application Developer – Full Stack @ Kenna Technology Solutions Inc.

2019 – 2020

- Developed a global sales portal designed to operationalize commercial relationships, enabling sales teams to support customers worldwide.
- Enhanced portal functionality and UI/UX, providing tools that allowed teams to manage long-term client relationships and deliver timely product support.

### Mobile Game Developer @ Adknown Inc.

2018

- **Entrepreneurial Execution:** Independently designed, developed, and deployed 12 cross-platform games for iOS and Android, accumulating over **50,000 downloads**.
- Managed the full software lifecycle, from concept and coding to monetization and app store optimization.

### Web Application Developer – Front End @ Sandbox Software Solutions Inc.

2017

- Developed responsive front-end interfaces for 5 diverse projects using Angular and JavaScript, ensuring strict compliance with accessibility standards for public sector clients.

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## EDUCATION

**Bachelor of Engineering, Computer Engineering**

**2015 – 2020**

*University of Guelph, Guelph, ON*

## INDEPENDENT EXPERIENCE & PROJECTS

**Member Portal & Payments Integration @ Canadian Association of Paediatric Nurses**

**2023 – 2025**

- **Stripe Integration:** Architected a secure membership payment system using the **Stripe API**, enabling seamless processing of dues, automated renewals, and financial reporting.
- **Webhook Automation:** Implemented **Stripe Webhooks** to listen for payment events, automatically updating member statuses in the MySQL database and triggering downstream onboarding workflows, significantly reducing manual administrative work.
- **CMS Development:** Built a custom admin portal allowing the association to independently manage content, events, and member resources.

**Founder - Realtime Collaborative Meal Planner & Recipe Manager @ Fridgie**

**2025**

- **Designed and built a cross-platform mobile application** (iOS/Android) that solves user friction in meal planning, managing the entire stack from the UI/UX design in **React Native** to the API infrastructure on **Docker**.
- **Implemented a scalable backend architecture** using **Hono**, decoupling business logic from service layers to support future feature expansion like automated meal suggestions and group collaboration.

**Company Operations Management Mobile App @ Rapid Sewer Data**

**2019**

- Co-developed a field-operations mobile app using **Ionic/Angular** and **Node.js** to map infrastructure and monitor sewer flow.
- Integrated 4K video storage and live camera feeds for real-time visual inspections, solving complex data handling problems on mobile devices.
- Built interactive mapping tools to document sewer system flow and log issues, streamlining field operations and data collection.

**Portfolio/Personal Website**

**2017 – present**

[nairdrie.com](http://nairdrie.com)

- Designed and developed a personal portfolio website (nairdrie.com) to showcase projects, skills, and achievements across web development, mobile apps, and game design.