

# Colin Lawrence

## Full-Stack Software Engineer

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### Profile

Versatile full-stack developer with a strong foundation in both software development and cyber security. Known for building scalable, secure, and user-friendly applications and continuously expanding technical skills in dynamic, fast-paced environments. Dedicated to building resilient, performant systems through clean architecture, secure coding, and cross-team collaboration.

### Projects

#### **Abram Yung Homes**

*React • TypeScript • Serverless APIs • Terraform • Cloudflare • Tailwind • Framer Motion*

- Built performance-optimized real estate site for Toronto broker with dual MLS feeds (agent + office), modernized UI (Custom design & animations), and EmailJS + React Hook Form inquiry system.
- Engineered zero-cost serverless backend via Cloudflare Workers: RESTful serverless API with CORS, SHA-1 image caching to object storage (R2 Bucket), custom retention policies, and Terraform-provisioned infrastructure with secure environment variables.
- Built a fully custom Tailwind UI system focused on accessibility, responsiveness, and brand consistency.
- Implemented advanced SEO features including dynamic metadata, ARIA enhancements, and reduced-motion accessibility support.

#### **The Jim Kelly Team**

*React • TypeScript • Vite • Node.js • Express • AWS S3 • Google API Integrations*

- Production real estate app with auto-populated MLS listings via Amplify Syndication + OData API; deployed on Netlify + Render.
- Built a scalable backend with Node.js/Express, using Node-Cache for Google Places reviews and S3 pre-signed URLs for secure media handling.
- Integrated Google Reviews API and lead capture forms with automated email notifications.

#### **Bestpresso Coffee**

*React • Flask • PostgreSQL • JWT • Psycopg2 • Framer Motion*

- Developed a full-stack e-commerce platform enabling users to browse, purchase, and rate coffee blends with a PostgreSQL-backed catalog.
- Facilitated secure user authentication and session management with JWT-protected RESTful APIs.
- Implemented paginated product browsing using Psycopg2 and raw SQL queries.
- Integrated a product rating system that calculates and displays average ratings from all users across all products.
- Designed cart functionality to track user selections and update inventory dynamically, streamlining the checkout process.
- Enhanced user experience with Framer-Motion animations for smooth transitions in product displays, page navigation and navigation bar.

#### **HOLD or FOLD**

*EJS • Express • MongoDB • Chart.js • Axios • node-cron*

- Designed a full-stack PvP crypto betting web app enabling users to wager tokens on cryptocurrency price movements over set timeframes.
- Implemented secure session-based user authentication using Express sessions and bcrypt, ensuring protected access to user dashboards and wager data.
- Integrated CoinGecko API with cron jobs to fetch and store real-time crypto prices, ensuring accurate bet outcomes.
- Implemented a dynamic user dashboard with Chart.js to display real time and historical data of user selected coins
- Engineered secure token-based wagering system with retry logic for API calls, enhancing reliability and user experience.
- Developed backend with Node.js/Express and MongoDB, implementing user authentication, session management, and bet resolution logic.

### Professional Experience

#### **Co-Founder & Full-Stack Developer**

*Lawrence & Reid Devworks*

- Co-founded agency delivering production apps across real estate, e-commerce, and SaaS with React, Node.js, and serverless backends.
- Worked directly with clients to transform concepts into polished, production-ready products.
- Led frontend of 2+ real estate platforms, designing modern, responsive UIs with dynamic MLS filtering.
- Built zero-cost APIs with Cloudflare Workers, R2, and AWS S3 pre-signed URLs, cutting external costs 80%+.

05/2025 – Present  
Toronto, Canada

#### **Technical Coordinator**

*Reliable Corporation*

- Migrated a paper-based workflow to a digital NetSuite system, leveraging SuiteScript for automation and real-time tracking.

02/2022 – 01/2025  
North York, Canada

### Education

#### **Full-Stack Software Engineering Immersive**

*General Assembly*

04/2025

#### **Computer Systems Technician**

*Durham College*

2019 – 2022

#### **Bachelor of Information Technology**

*Carleton University (Incomplete)*

2014 – 2017