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. Passionate about solving real-world problems through clean code, thoughtful design, and collaboration.

📂 Projects

The Jim Kelly Team ⧉
React Express Node.js Email.js Framer-Motion
- Developed a production-ready real estate web app for a realtor team, enabling users to browse their live MLS listings, automatically populated via the Amplify Syndication Prop TX API eliminating the need for manual listing uploads.
- Built a responsive frontend using React, with smooth animated transitions via Framer Motion for an engaging UI experience.
- Implemented a backend with Node.js and Express, deployed on Render, handling real-time data fetching and secure API routing.
- Deployed frontend to Netlify, leveraging automated CI/CD pipelines and edge CDN distribution for performance and reliability.
- Used Google Places API to automatically pull and display up-to-date realtor reviews, enhancing trust and SEO content freshness.
- Integrated Email.js to enable users to submit inquiries directly from the site without backend mail server configuration.
- Improved search engine visibility with custom SEO configurations including robots.txt, canonical tags, and descriptive metadata.

Bestpresso Coffee ⧉
React Flask PostgreSQL Psycopg2 JWT bcrypt.js 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 bcrypt.js 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 seleceted 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.

GreaseBot
RuneScape RobotJS
- Developed a custom automation bot using RobotJS to simulate human behavior within RuneScape, automating gameplay and resource management across multiple accounts.
- Implemented randomized input intervals and a dynamic pathfinding system with built-in variability and error margins to avoid repetitive movements and static behaviors to reduce bot detectability, mimicking natural user behavior.
- Created an inter-account resource transfer system, coordinating in-game materials and currency in an efficient, automated pipeline.
- Collaborated via GitHub and enganged in writing clean and conflict free code to the standards provided by the team.

💼 Professional Experience

Technical Coordinator   02/2022 – 01/2025
Reliable Corporation   North York, Canada
- Planned, designed, and implemented a custom NetSuite-based workflow to replace the company's paper system, enabling real-time tracking of orders and repairs, streamlining cross-departmental communication, performance, and alignment with business requirements.
- Used NetSuite's SuiteScript to customize enterprise software, enhancing data processing and user interaction for internal stakeholders.

🎓 Education

Full-Stack Software Engineering Bootcamp   04/2025
General Assembly

Computer Systems Technician   2019 – 2022
Durham College

Bachelor of Information Technology   2014 – 2017
Carleton University (Incomplete)