

Aiden Paleczny

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Technical Skills

Languages: JavaScript/TypeScript, Python, Java, C#, C++, SQL, HTML, CSS

Frameworks & Libraries: React, Node.js, Express.js, Tailwind CSS, Vite, FastAPI

Databases & Cloud: PostgreSQL, AWS RDS, GraphQL, REST APIs

Systems & Tools: Linux/Unix, Git, WebSockets, UML Diagrams, Agile/Scrum

Professional Experience

Software Developer Co-op

May–August 2025, May–August 2024

Remote - Toronto, ON

Building Controls & Solutions

- Invited to return for a second term with expanded responsibilities, including direct client communication and ownership of solution delivery.
- Automated complex building/HVAC data imports by consolidating 6+ legacy scripts into a single module, cutting deployment time and runtime by 40%+.
- Refactored 40+ monitoring scripts into modular, reusable components, boosting scalability, maintainability, and system performance.
- Built Python automation tools to parse PDFs, validate dependencies, and auto-generate documentation, reducing manual verification effort.
- Developed simulation models and anomaly detection logic for energy usage (heating, cooling, airflow, humidity), enabling proactive efficiency improvements.
- Engineered interactive dashboards and visualizations (time-series, scatter, heat maps, KPIs) powered by custom data-processing scripts, enabling stakeholders to explore trends with flexible filters, baselines, and time ranges.
- Optimized large-scale data pipelines with algorithmic improvements (binary search, hash maps, refactoring), significantly accelerating processing on high-volume datasets.
- Collaborated with clients and cross-functional teams to gather requirements, deliver solutions, and resolve production issues.

Summer Camp Counsellor

June 2018 – August 2023

London, ON

City of London

- Promoted 3 times from entry-level to Senior Leader while supervising 60+ participants (ages 4–18) and mentoring staff, demonstrating strong leadership, mentorship, and public speaking skills.

Selected Projects

RouteRadar | React, Vite, Tailwind CSS, Node.js, Express, GraphQL, Google Maps API

August 2025

- Built a real-time transit tracking web app that maps bus locations and arrival times for 40+ active routes in London, ON.
- Developed a React frontend with Google Maps integration, featuring live-updating bus and stop markers with smooth animations.
- Implemented a GraphQL backend with Node.js/Express and Apollo WebSocket subscriptions for real-time updates, reducing over-fetching vs. REST.
- Added connection status indicators, time tracking, and automatic reconnection to improve reliability under unstable networks.
- Deployed full-stack app on Render with CI/CD, enabling public access via transit.aidenpaleczny.com

TradeWise | Python, FastAPI, PostgreSQL, AWS RDS, React, Vite, Tailwind CSS, Render

July 2025

- Designed a financial analytics platform aggregating 6,000+ companies' data into interactive dashboards for valuation and revenue analysis.
- Built a scalable FastAPI backend with PostgreSQL + AWS RDS, supporting concurrent queries across large datasets.
- Implemented an LRU cache to eliminate redundant scraping, cutting search/autocomplete response times to sub-second latency.
- Developed a responsive React web app with Tailwind styling, enabling users to explore financial trends and KPIs.
- Deployed on Render with automated CI/CD pipelines for continuous delivery: trade.aidenpaleczny.com

Education

University of Western Ontario

September 2022 – May 2026

London, ON

Bachelor of Engineering in Software Engineering