

# TRISTAN PARRY



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## TECHNICAL SKILLS






**Languages:** Python, Java, JavaScript/TypeScript, HTML/CSS, C++, SQL, PowerShell, PHP

**Frameworks/Environments:** React, jQuery, Angular, Git, Docker, MongoDB, PostgreSQL, Express, Node.js, Heroku, Firebase

## EXPERIENCE

-  **Full Stack Developer** Sep. 2022 – Dec. 2022  
*LCBO|next* Kitchener, ON
  - Developed product tag LED flash functionality using a specialized API to indicate pickup products at the LCBO's HQ store
  - Built the LCBO Service Template using PostgreSQL/React to facilitate future app startup with user authentication routes
  - Implemented over 60 changes in the LCBO's Grocer Claims app to improve usability and introduce new client features
  - Managed Azure/Bitbucket repositories to maintain production applications and update the LCBO's live software
  - Coordinated with various LCBO divisions via email and meetings to schedule app testing and deployment windows
-  **Full Stack Developer** Jan. 2022 – Apr. 2022  
*Polaris Intelligence, Inc.* Toronto, ON
  - Developed the Polaris Trend Analysis module using React/Plotly.js to delineate historical Canadian census data
  - Employed Jira to solve over 70 bugs in the Polaris Intelligence platform and improve cross-browser compatibility
  - Collaborated with senior developers using the Agile framework to facilitate the production of data mining software
  - Orchestrated company meetings for Polaris Intelligence's codebase architecture and programmatic practices

## PROJECTS

-  **FoodFind** | *JavaScript, HTML/CSS, MongoDB, Express, React, Node.js* Jun. 2021 - Jul. 2021
  - Developed a MERN Stack app to display proximal restaurants and grocery stores to a user's location
  - Produced core functionality for location-based API fetching, using the Mapbox API and custom styling
  - Built an Express server with various routes and a Mongoose schema to execute user GET, POST, and PUT requests
  - Utilized conditional rendering to promote FoodFind account security and a robust user experience
-  **Multility** | *Java, Android Studio* Jun. 2020 – Sep. 2020
  - Developed a mobile Android application using Java/Android Studio to house multiple utilities
  - Implemented tip calculator, stopwatch, notepad, password generator, fact generator and news page Android fragments
  - Led a team of 6 to organize development deadlines and app completion targets
  - Published the application to the Google Play Store gaining an average 4.8/5-star review
-  **BetterBanking** | *Java, MongoDB, Swing* May 2021 – Jun. 2021
  - Produced a banking application containing fully functional chequing, saving, and investment accounts
  - Generated a polymorphism-based object structure to truncate  $\approx 48\%$  of the application's account code
  - Incorporated Swing to build an interactive banking portal for user registration, login, and account operations
  - Utilized a MongoDB Atlas cluster to save and manipulate user profiles and banking accounts
-  **RapidKeys** | *TypeScript, HTML/CSS, Angular, Node.js* Aug. 2021
  - Created an Angular application to measure a user's real-time typing speed, errors, and accuracy
  - Utilized the RxJS library to share TypeScript functions between components as Observables
  - Dynamically updated state and markup using the ngFor directive and HTML inline event handlers
  - Deployed to Firebase with the Angular CLI, and achieved a 100% "Best Practices" rating in Chrome audit
-  **Resonate** | *C++, JUCE* Jan. 2022
  - Developed a reverb VST using the dsp::Reverb class for manipulation in any major Digital Audio Workstation
  - Implemented audio processing functionality for reverb damping, size, width, wet/dry parameters
  - Constructed VST plugin interface using the JUCE framework with dynamic colour sliders and value labels
  - Maximized user efficiency with the juce::AudioProcessorValueTreeState class to integrate XML parameter recall

## EDUCATION

-  **University of Waterloo** Sep. 2021 – Apr. 2026  
*Candidate for Bachelors of Applied Science – Computer Engineering (Honours)* Waterloo, ON