





TRISTAN PARRY

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TECHNICAL SKILLS

Languages: Python, Java, JavaScript, TypeScript, C, C++, Verilog, HTML, CSS, SQL, Kotlin, PowerShell, PHP
Frameworks/Environments/Libraries: React, Vue, Spring Boot, Cypress, jQuery, Node.js, Angular, Express, Pinia
Tools: Git, Jira, Bitbucket, Docker, Jenkins, Sonatype, Datadog, Sonarqube, MongoDB, Postgres, Firebase, Figma

EXPERIENCE

-  **PointClickCare** Jan. 2024 – Apr. 2024
Full Stack Developer Mississauga, ON
 - Implemented software changes across 6 services to support LTPAC products with >60% Skilled Nursing market share
 - Adapted backend DTOs/API to achieve a 100% success rate in transmitting NPIs to Redox, from a previous 28%
 - Remodeled frontend store/state management using Pinia to upgrade Carequality application to Vue 3 standard
 - Wrote unit tests and automated test suites using Cypress to conserve a Sonarqube code coverage score above 90%
 - Created 5 monitors via Datadog to enhance app visibility and metric automation across demo/production environments
 - Resolved security violations using Sonatype build reports to maintain 0 vulnerabilities across various microservices
 - Communicated with product/UX teams using Figma to develop frontend for asynchronous facility enablement service
 - Led biweekly software demo sessions with engineering/product teams to discuss and solidify end-to-end changes**Tools:** Java, TypeScript, JavaScript, SQL, Kotlin, Spring Boot, Vue, Jenkins, Cypress, Datadog, Sonatype, Sonarqube, Figma
-  **Amdocs** May 2023 – Aug. 2023
UI Developer Toronto, ON
 - Directed full remodel for frontend API calls using React Redux to lower corporate traffic by 10+ seconds per network call
 - Implemented report functionality in partnership management app to deliver corporate lifecycle metrics for 100+ partners
 - Utilized React/Material UI in developing 5 graphical components to fulfil mockups for Amdocs's proprietary software
 - Completed AWS workshops using Sagemaker/CodeWhisperer to design serverless Lambda functions with generative AI
 - Coordinated with backend/management teams to perform regular Jira groomings and revise commercial business logic**Tools:** JavaScript, Typescript, React, Redux, Figma, Material UI, Git, Jira, Bitbucket, Confluence, AWS
-  **LCBO|next** Sep. 2022 – Dec. 2022
Full Stack Developer Kitchener, ON
 - Developed LED product tag flash functionality using a specialized API for 4,000+ products at the LCBO's flagship 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
 - Oversaw business relations with exterior partner Danavision to design the LCBO's LED product tag technology**Tools:** Typescript, SQL, React, Azure DevOps, Figma, Git, Jira, Bitbucket, Confluence
-  **Polaris Intelligence, Inc.** Jan. 2022 – Apr. 2022
Full Stack Developer 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
 - Attracted RBC as a client through pioneering the Trend Analysis module and resulting in a potential partnership**Tools:** JavaScript, PHP, React, jQuery, Plotly.js, Git, Jira, Bitbucket, Confluence

PROJECTS

FoodFind | *JavaScript, HTML/CSS, MongoDB, Express, React, Node.js*

- 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*

- 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*

- Produced a banking application containing fully functional chequing, saving, and investment accounts
- Generated a polymorphism-based object structure to truncate 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*

- 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*

- 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

CodeCompose | *JavaScript, HTML/CSS, MongoDB, Express, React, Node.js*

- Designed an online code editor using the MERN Stack for front-end web development (HTML/CSS/JS)
- Created editor functionality using CodeMirror components and the js-beautify formatting library for writing code
- Implemented an auto-updating <iframe> using setTimeout() and React hooks to render a webpage of a user's project
- Formed registration and login features with MongoDB to allow for account project saving

Personal Portfolio | *JavaScript, HTML/CSS*

- Designed and developed a personal portfolio to showcase my projects, education, and contact details
- Implemented an API request to retrieve my GitHub repositories, and return HTML elements from the JSON response
- Integrated CSS flex and grid displays to produce a responsive website for mobile and desktop platforms
- Published to [GitHub Pages](#) as a public site, also including keyframes and transitions for a pleasing user experience

Morse Code Hangman Game | *C, STM32 Nucleo-64 Microcontroller, PlatformIO*

- Developed functionality for entering and reading morse code in a hangman-style game format, using PlatformIO
- Interfaced with microcontroller, 16x2 parallel LCD, and active low-level trigger buzzer to facilitate visual and auditory I/O

EDUCATION

University of Waterloo

Bachelor of Applied Science – Computer Engineering, Co-op (Honours)

Sep. 2021 – Apr. 2026

Waterloo, ON