

TRISTAN PARRY

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TECHNICAL SKILLS

Languages: Python, Java, JavaScript, TypeScript, C, C++, Verilog, HTML, CSS, SQL, Kotlin, MATLAB, 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, Vivado, Firebase, Figma

EXPERIENCE

PointClickCare

Jan. 2024 – Apr. 2024

Full Stack Developer

Mississauga, ON

- Updated 6 services to support Long Term Post-Acute Care products with >60% Skilled Nursing market share
- Adapted backend API to boost National Provider Identifier transmission success to Redox, from 28% to 100%
- Remodeled frontend state management using Pinia to upgrade Carequality application to Vue 3
- Wrote automated unit and integration test suites using Cypress to maintain 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
- Overhauled inbound data service's dependencies by updating Spring Boot version to ensure service maintainability
- 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

Amdocs

May 2023 – Aug. 2023

UI Developer

Toronto, ON

- Directed full remodel for frontend API calls using React Redux lowering 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 to develop 5 graphical components to fulfil mockups for Amdocs's proprietary software
- Completed AWS workshops using Sagemaker/CodeWhisperer to design AWS Lambda functions with generative AI
- Coordinated with backend/management teams to perform regular Jira groomings and revise commercial business logic

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
- Oversaw business relations with exterior partner Danavision to design the LCBO's LED product tag technology
- Built the LCBO Service Template using PostgreSQL and React to facilitate future app startup with user authentication
- Implemented over 60 changes in the LCBO Grocer Claims app to improve usability and introduce new client features
- Managed Azure and Bitbucket repositories to maintain production applications and update the LCBO's live software

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
- Attracted RBC as a client through pioneering the Trend Analysis module and resulting in a potential partnership
- 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

EDUCATION

University of Waterloo

Sep. 2021 – Apr. 2026

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

Waterloo, ON

- 85% Cumulative Average, Excellent Academic Standing

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
- Implemented registration and login features with MongoDB to allow for account restaurant saving
- 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
- Accessed public news and fact APIs to provide app functionality using JSON requests
- 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
- Manipulated an HTMLSpanElement NodeList to discern between correctly and incorrectly typed characters
- 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% Chrome Lighthouse score

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