

# Januston Nicholas

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## Skills

- Languages** Typescript, JavaScript, HTML, CSS/SASS, Java, C/C++, Python, PHP, SQL (MySQL, PostgreSQL)
- Frameworks** Angular 2+, AngularJS, Apache Nifi, Apache Tomcat, Bootstrap, Drupal 8, Electron, Firebase, Git, LTI (Learning Tools Interoperability), LMS (Learning Management System), React, Spring Boot.
- Tools** Chrome Extensions, Figma, GitHub, Postman, Five9, Photoshop, SQL Developer, Soap UI, Jasmine

## Work Experience

**Yuja** North York, ON  
Full Stack Developer Jan 2023 - Apr 2023

- **Developed API endpoints** to enable communication between extension code and server code, as well as to integrate with Learning Tools Interoperability (LTI) endpoints. These efforts facilitated seamless integration of the extension with various LTI-enabled platforms, enhancing its functionality and usability for end-users
- **Established authentication workflows** for Canvas and D2L learning management systems (LMS), enabling generation of **access tokens** for **automated quiz creation**. This streamlined the quiz creation process, reducing manual setup time while enhancing overall efficiency
- **Redesigned quiz settings page** and added new features, such as profile saving and exemption of students from proctoring requirements, using **React**, to reduce the time and effort required for quiz editing and provide greater flexibility and control for instructors
- **Updated and developed quiz interception code** in both **Electron** and **TypeScript** for multiple learning management systems, enhancing quiz-taking integrity by preventing students from using additional aids and ensuring accurate assessment of student performance

**SS&C Technologies** Toronto, ON  
Software Developer Jan 2022 - Apr 2022

- Spearheaded API development to streamline **deletion of outdated records** in an **Inference Datastore**, improving database efficiency.
- **Engineered an HTML Tree** to display business groups using API calls, resulting in improvements in user experience and navigation
- **Optimized Five9 call flows** and reorganized **Five9** data using **SQL**, reducing caller wait times and improved overall caller experience

**Purolator** Mississauga, ON  
Marketing Front End Developer May 2021 - Aug 2021

- **Revamped the Purolator website** using **Drupal 8**, **PHP**, **HTML**, **CSS**, and **JavaScript**, resulting in an increase in website traffic
- **Developed an innovative HTML and JSON generator** using a **PHP script** and template, which dynamically produced over 700 locator pages through the use of API calls and CSV data, improving the user experience and increasing overall customer satisfaction

**Teranet** Toronto, ON  
Software Developer Sept 2020 - Dec 2020

- Played an integral role in the **development of the client portal**, utilizing **Java**, **Angular JS**, **JavaScript**, **HTML**, and **Python** to significantly enhance the user experience. Notable achievements include the successful implementation of **intuitive and user-friendly features**, resulting in increased engagement and higher user satisfaction levels.
- Used **Postman**, **SQL Developer**, and **Soap UI** to streamline **debugging** and updating of **consumer reports** through data retrieval and **API requests**.

**TyItGo (YCS20)** Waterloo, ON  
Web Developer Mar 2020 - May 2020

- Collaborated on **website redesign** using **Angular 2+**, **HTML**, **Sass**, **CSS**, and **Typescript**, increasing **traffic** and **user engagement**.
- Led **client portal development** and streamlined development with **Jasmine** and **Karma tests**, reducing overall **development time**.

## Projects

**Real Time Operating System** Waterloo, ON  
Software Developer May 2022 - Aug 2022

- Designed and developed a Real-Time Operating System, utilizing the **µVision Kiel IDE**. Implemented memory allocation with a **binary buddy system**, enabled **inter-process communication** through mailboxes, and ensured real-time task deadline management with **EDF scheduling**

**Discord Music and Image Bot** Waterloo, ON  
Software Developer September 2021 - Nov 2021

- Designed and deployed a custom Discord music bot using **TypeScript**, **Node.js**, and the **Slappey JS library** for seamless voice channel integration and automatic song playback from YouTube. Also implemented web search functionality for image and GIF retrieval based on user prompts. Hosted on **Heroku** for online accessibility.

## Education

**University of Waterloo** Waterloo, ON  
Computer Engineering Sept 2019 - Apr 2024