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- Spearheaded API development to streamline **deletion of outdated records** in an **Inference Datastore**, improving database efficiency.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**.

TyltGo (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*