

JACKSON SMITH

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EDUCATION

Carleton University - Bachelor of Computer Science Honours Graduated: December 2023

WORK EXPERIENCE

Junior Developer | Tomlinson Group of Companies March 2024 - Present

- Designed and enhanced internal applications and web interfaces leading to a **40%** improvement in accessibility and user interaction across platforms. (**HTML, CSS, Javascript**)
- Spearheaded an initiative to elevate code quality and documentation standards by establishing standard version control practices and conducting systematic code refactorization. This effort resulted in a **30%** increase in code readability, maintainability, and facilitated future extensibility.
- Responsible for transforming complex queries into core data services, facilitating the generation of SSRS reports. (**SQL**)

Software Developer | Imperial Contracting Ottawa | (imperialcontractingottawa.ca) November 2023 - February 2024

- Engineered a web application for a local contracting business specializing in comprehensive home renovations, establishing a competitive online presence. (**React.js, Javascript, Node.js, Express.js**)
- Migrated old application which included enhancements of responsive design, increased SEO performance and form integration resulting in an increase of **25%**.
- Redesign successfully increased user activity, user experience and overall performance by **75%**.

IT Support Intern | Tomlinson Group of Companies May 2023 – Sept 2023

- Developed and implemented internal automation tools streamlining operations and reducing manual efforts, which enhanced team productivity by **87.5%**. (**Python**)
- Resolved over **50+** software defects and support issues throughout my term, improving user efficiency and software stability.
- Spearheaded **30+** onboarding and end-user sessions on IT tools and best practices which decreased.

PROJECTS

Movie Web Scraper | Github Go / PostgreSQL

- Developed a web scraper that performs daily extraction of real-time data to give users daily updates on the latest popular movies. (**Go**)
- Employed robust error-handling mechanisms to ensure reliable data extraction and minimize downtime.
- Conducted regular maintenance and updates to the scraper, adapting to changes in website structures and enhancing data accuracy.

Curvature Tensor Visualization Python

- Implemented an algorithm to estimate the curvature tensor on triangular meshes, enabling the extraction and visualization of curvature directions. (**Python, NumPy**)
- Analyzed and visualized curvature directions as vectors on various meshes, comparing results across different curvature computation methods. (**Meshlab**)
- Conducted a detailed study on the impact of varying the radius parameter on curvature estimation, presenting findings in a comprehensive report.

Microcurrent Technology (MCT) Device Simulator C++ / Qt

- Collaborator of a an embedded software system emulating a therapeutic medical device, ensuring accurate feature implementation and software performance.
- Crafted and curated UML, sequence, and activity diagrams, enhancing conceptual understanding and documentation, which reduced code refactorizations and minimized software defects.
- Responsible for the implementation of therapy functionalities within the graphical user interface, ensuring both functional integrity and alignment with project specifications. (**C++, Qt**)

TECHNICAL SKILLS

Programming Languages | JavaScript, Java, C++, Go, Python, SQL
Frameworks/Technologies | React.js, Node.js, Express.js, MongoDB, PostgreSQL, NumPy, Material UI
Developer Tools | Git, GitHub, Postman, Figma, Jira