Felix Tessier

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EDUCATION

University of Manitoba
Bachelor of Science in Mechanical Engineering   *GPA: 4.11/4.5*

SKILLS

Languages: Python, JavaScript/TypeScript, Java, SQL, Visual Basic, MATLAB, HTML/CSS, LaTeX
Tools: Git/GitHub, ReactJS, React Native, Node.js, Express.js, Redux.js, VS Code

PROFESSIONAL EXPERIENCE

Software Automation Engineering Specialist | *SolutionAir*   Jun. 2023 – Present
- Developed additional website features to enhance user-experience during CAD configuration and quoting while also implementing Git for source control.
- Designed and launched several software configurators using DriveWorks to automate engineering procedures and to centralize data in SQL.
- Engineered and optimized custom scripts across multiple platforms to streamline workflow, eliminate bottlenecks, and rectify software bugs, enhancing operational efficiency for the engineering department.
- Collaborated with design engineers and the sales team to standardize product design, ensuring configurability and alignment with market needs.

Project Engineer | *Amphenol Technical Products International*   Apr. 2022 – Jun. 2023
- Developed and implemented automation tools for the quotation of wiring harnesses using Visual Basic resulting in a 65% time reduction in quotation time.
- Managed client-driven solar and EV harness projects, from costing to manufacturing, while providing technical feedback to the client as needed.
- Coordinated directly with the production and supply chain management for project scheduling and prototype building.
- Researched and designed cutting-edge solar and EV wire-harnesses while ensuring strict compliance with UL standards.

Research Assistant | *University of Mantioba*   May 2020 – Sep. 2020
- Performed extensive literature review to summarize the latest developments on the numerical and empirical modeling of solar stills.
- Developed numerical models to simulate several heat and mass transfer phenomena occurring within solar still using ANSYS FLUENT.
- Authored a detailed technical report to highlight research results and limitations associated with numerical modeling of solar stills.

PROJECTS

Full-Stack Software App | *React Native, Redux, TypeScript, ExpressJS, PostgreSQL, Git*   July 2023 – Present
- Currently developing a comprehensive full-stack mobile application that allows users to discover, join, and organize sport games in their local communities.
- Leveraged React Native combined with the Redux toolkit to achieve a responsive frontend, ensuring a seamless user experience across mobile devices.
- Implemented RestAPI principles and leveraged RTK Query to optimize data retrieval, ensuring efficient data fetching and caching from backend API endpoints.
- Designed and implemented a robust backend using ExpressJS and PostgreSQL, focusing on scalable, secure data handling and seamless integration with the frontend.