Felix Tessier

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PROFESSIONAL EXPERIENCE

Software Developer | *Price Industries Limited*   Apr. 2024 – Present
- Designed and led a service-based, distributed document generation platform in .NET, deployed on Azure Container Apps with Docker and message queues, reducing document creation time by 80%.
- Owned end-to-end delivery including system architecture, development, infrastructure as code (Terraform), load testing, CI/CD pipelines, and integrations with multiple internal client-facing and engineering platforms.
- Designed and built a document data extraction pipeline using OCR and LLM technologies to digitize production documents, enabling real-time tracking and validation of production workflows against retrieved data using Ignition, RabbitMQ and .NET.
- Optimized a RAG-based chatbot by redesigning request flows and implementing custom modules to reduce token usage and external API calls, cutting response time by 50% and operational costs by 33%, and deploying the solution to Microsoft Teams.
- Leading new feature development for existing legacy software to meet the requirements of various business units across the company.

Automation Software Developer | *SolutionAir*   Jun. 2023 – Mar. 2024
- Led development and modernization of a client-facing sales web application, enhancing UI/UX and filtering functionality using JavaScript, HTML, and CSS, and introducing Git-based source control and deployment workflows.
- Developed and shipped configurable automation solutions to streamline engineering workflows, centralizing product and configuration data in Microsoft SQL for consistency and reuse.
- Engineered and optimized custom scripts across multiple platforms to eliminate workflow bottlenecks, resolve software defects, and improve operational efficiency for the engineering organization.
- Partnered with engineering stakeholders to standardize product design and configuration models, improving maintainability and ensuring alignment with evolving market requirements.

Project Engineer | *Amphenol Technical Products International*   Apr. 2022 – Jun. 2023
- Developed and deployed automation tools using Excel and Visual Basic to streamline quotation workflows, reducing turnaround time by 50% and improving pricing consistency.
- Owned end-to-end delivery of client-driven solar and EV harness projects, coordinating costing, design, and manufacturing while acting as the primary technical point of contact for clients.
- Researched and designed next-generation solar and EV wire harness solutions, ensuring compliance with UL standards and supporting successful production release.

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 stills using ANSYS FLUENT.

EDUCATION

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

SKILLS

Languages: C#, JavaScript, TypeScript, Python, HTML/CSS, SQL, Java, Visual Basic, MATLAB
Libraries & Frameworks: .NET, Angular, Next.js, React, React Native, Express.js, TailwindCSS
Tools: Git, GitHub, Docker, Azure, Vercel, Figma