

A mechanical and software engineer. I solve both real and virtual world problems.

## WORK EXPERIENCE

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- **Objectivity Software Services Ltd** Mauritius  
*Software Developer* May 2023 - Present
  - **Full Stack Developer:** Designed and implemented new application using Clean Architecture and CQRS pattern
  - **Azure:** Worked with Azure CosmosDB using Gremlin API for graph database functionality
  - **Migration:** Migrated from graph database to relational database
  - **Bryntum Scheduler:** Trained team to use new library in legacy application
  - **Legacy Codebase:** Developed new features using .NET framework, AngularJS and React, BootFX ORM library was used for data management and retrieval
- **Accenture Services Ltd** Mauritius  
*Application Development Associate* Apr 2021 - April 2023
  - **Full Stack Developer:** Web app development on applications using ASP.NET, Springboot and AngularJS
  - **Mobile App Developer:** Mobile app development using React Native
  - **Team Dev Environment:** Set up local custom development environment for the team using Docker and Unix scripting
  - **IoT Workshop:** Hosted workshop at the University of Mauritius on IoT devices, Azure Services and Power BI
  - **Eco Innovation Presenter:** Presented Master's thesis to global Accenture
- **Water Research** Mauritius  
*Project Coordinator* Feb 2020 - Sept 2020
  - **International Operations:** Kick-started international operations in neighbouring island Reunion
  - **Digitizing Workflow:** Created Excel application using VBA to digitize foreman daily procedures
  - **Engineering:** Conducted geotechnical investigations and surveys
- **Air Mauritius Ltd** Mauritius  
*Mechanical Engineer Intern* Dec 2018 - Feb 2019
  - **Air-frame and Mechanical Systems:** Training, processing documents & setting up aircraft maintenance tasks
  - **Wheels & Brakes Workshop:** Maintenance/repair of aircraft wheels and brakes
  - **NDT:** Non-destructive testing on aircraft
- **Hotel Istana KLCC** Malaysia  
*Engineering Intern* Dec 2017 - Jan 2018
  - **Maintenance:** Routine maintenance of HVAC, electrical systems, cooling towers, pumps and plumbing system

## CERTIFICATIONS

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- **AWS Cloud Practitioner Certification:** Nov 2021 - Nov 2023

## SKILLS SUMMARY

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- **Programming:** C#, JavaScript, Python, SQL, Java
- **Front-end:** React, Svelte, Razor, jQuery, AngularJS
- **Back-end:** .NET, .NET Core, .NET Framework, ASP.NET, NodeJs, Springboot
- **Tools:** Docker, Git, Arduino, Solidworks
- **Languages:** English, French

## PROJECTS

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- **Leak Detection and Localization in Water Pipelines using an Ensemble Deep Learning Classification Model:**  
Designed AI model to detect and localize water pipeline leaks.
- **A Mathematical Modelling Study of the Effects of Air Expansion Inside the Brain on the Intracranial Pressure:**  
Investigated the effects of pressure and temperature on the intracranial pressure due to trapped air.
- **Digitizing Daily Workflow:**  
Developed an Excel app using VBA and macros to move away from paper-based practices.
- **Warman Competition:**  
Designed and built an automated robot to carry out a series of tasks.

## EDUCATION

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- **University of Mauritius** Mauritius  
*Masters in Applied Software Technologies* Sept 2020 - Sept 2021
- **Monash University Malaysia** Malaysia  
*Bachelor of Mechanical Engineering (Honours)* Oct 2015 - Oct 2019