

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

WORK EXPERIENCE

- **Accenture Services Ltd** Mauritius
Application Development Associate *Apr 2021 - Present*
 - **Full Stack Developer:** Web app development on applications using ASP.NET and Springboot
 - **Mobile App Developer:** Developed mobile apps 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

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

SKILLS SUMMARY

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

PROJECTS

- **Leak Detection and Localization in Water Pipelines using an Ensemble Deep Learning Classification Model:**
Investigated and implemented an AI algorithm using python to detect and localize leaks in a water distribution network. The model was also trained to detect the pipe material transporting the water.
- **A Mathematical Modelling Study of the Effects of Air Expansion Inside the Brain on the Intracranial Pressure:**
Built a mathematical model in Matlab to simulate the effects of pressure and temperature on the intracranial pressure, due to expansion of trapped air in the brain.
- **Digitizing Daily Workflow:**
Developed an Excel app using VBA and macros to facilitate foreman data logging. This helped increase productivity and decrease wait-time for engineers to receive data.
- **Warman Competition:**
Designed and built a robot to carry out a series of tasks. The robot was automated using an Arduino board.

EDUCATION

- **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*