



William Smith

Software Engineer

INFO

Permanent Resident
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 Portfolio
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KEY SKILLS

Front End

HTML5	SASS
CSS3	Material UI
JavaScript	Bootstrap
ReactJS	Adobe XD

Back End

NodeJS	Jest
ExpressJS	Mocha
MongoDB	Chai

Testing

EDUCATION

Applied Mathematics and
Computer Science
University of South Africa
2023

Full-Stack Web Development
HyperionDev
2020

Mechanical Engineering
Durban University of Technology
2014

I'm a Software Engineer with a background in Control Systems Engineering who is passionate about creating user-friendly applications by writing efficient and maintainable code.

PERSONAL PROJECTS

Prestige Auto | Full-Stack Application

Technologies: React / Bootstrap / Node.js / Express.js / MongoDB / JWT

Designed, developed, and deployed a mobile-friendly application for a fictional motor car club where members can create a personal profile, browse the fleet of available cars, and request a booking. The administrator has access to a dashboard where cars can be created, removed, or updated.

ISS Tracker | Front End Application

Technologies: React / Leaflet / Open-Notify API

Designed, developed, and deployed a mobile-friendly application to track the position of the International Space Station. This application allows users to get real-time data such as altitude, velocity, current crew members onboard as well as the time and date of the next visible pass from the users' location.

PROFESSIONAL EXPERIENCE

Freelance Web Developer

Self-Employed | Apr 2020 - Present

- Plan and improve website layouts, user interface and user experience.
- Create responsive websites using HTML, CSS & JavaScript.
- Deploy websites and manage hosting.

Senior Control Systems Engineer

Integ System Integrators - Cape Town, South Africa | Jul 2019 - Apr 2020

- Designed and implemented control system architectures to achieve maximum safety, efficiency and scalability.
- Programmed, tested and commissioned various PLC based control systems for optimal control and efficiency.
- Developed, tested and deployed Human-Machine-Interface (HMI) software and user-friendly graphics for various control systems.
- Created project plans and timelines and ensured 100% on time delivery of software and commissioning.

Automation Control Systems Engineer

Merck - Carlow, Ireland | Dec 2017 - Jul 2019

- Owned and administrated OEM control systems in a GMP regulated environment to ensure EMA and FDA compliance.
- Led system improvements, developed detailed specifications, engineering documents, and standard operating procedures.
- Led technical root cause analysis, incident investigations and troubleshooting issues related to electrical, instrumentation and control systems.