DICKSON DAVID

# Software Engineer

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# PROFESSIONAL EXPERIENCE

**Gleason Works Bangalore, Karnataka**

**Software Engineer | DotNet and Python Developer Aug 2023 - Present**

* **Led the Machine Testing Team and Web Development Team** to build Gleason 4.0 type API functions in **.NET Core Web API,** integrating them into **React,** **and Blazor applications**.
* **Created a Proxy Server** using YARP and NGINX for GEMS applications, enabling services and applications to run on dedicated machines and ports with .NET.
* Developed and managed **CI/CD pipelines in Azure DevOps** to streamline application versioning and deployment.
* Built a **Collector Module** to collect data from CNC Machines and feed them to Influxdb for Data Visualization.
* Developed **MT Adapter** using the MT Connect Standard to communicate with machines and IFM Vibration Sensors, extracting data efficiently based on polling delays and scan rates. *(Python and C++)*
* Engineered a Python-based **Fingerprint Module Watcher** to monitor designated folder, automatically uploading files to **Minio** service upon creation; streamlined data transfer process, increasing efficiency by 40%.

**Tata Consultancy Services Bangalore, Karnataka**

**Assistant System Engineer | AI - MFDM Developer Dec 2021 - Aug 2023**

* Led the development of **Web APIs and** **Selenium-based web scraping bots** to monitor system health.
* Automated a data retrieval use case from Active Directory using **Appium and Win App driver**, increasing process efficiency by 40% and enabling seamless data integration with SAP transaction tcodes.
* Utilized **Tesseract-OCR** to automate BW system process chain monitoring, identifying text in screenshots and generating reports in Excel *(.NET and C#).*
* Reduced the cost involved in Human intervention by developing Macro Based Excel Bots that provides **Monitoring, Self-heal and Mail generation** on SAP services and saved minimum of 10 hours of man time spent on using t-codes to monitor. *(VBA)*

**RRSON Infotech Pvt Ltd Krishnagiri, Tamil Nadu**

**Lead Web Developer May 2020- Dec 2021**

* As a Lead Web Developer, I Designed and Developed 6 Live Websites increasing the Annual revenue by 70%.
* **Hit protocol** – Created a **Crypto based Website** with hitprotocol coins which generated an estimated profit up to 60%. Incorporated MLM Referral System based on **Binary Tree** and **Live cryptocurrency Exchange rates generator.**
* **Green Tree Immigration** – Built an **Online CRM Portal** that incorporates all tasks done by Process and Sales Employees with **Human Resource** and **Leads Management** and generated a annual Revenue of Rs. 1,62,76,000.
* **Prizopriz India –** Used MLM Based **Binary Tree** Referral System to develop **Multi-Vendor Ecommerce**
* Website along with a Job Board Portalincreasing **sales by 60%.**
* **Annamalai Maligai:** Implemented a full-scale e-commerce platform with multiple stock updates and bill machine integration.

# EDUCATION

**BE - Electronics and Communication Engineering Salem, TN**

***Dhirajlal Gandhi College of Engineering and Technology –*** Graduated with 6.2 CGPA **2016-2020**

**Higher Secondary Education – Computer Science Krishnagiri, TN**

***Nalanda Matric Higher Secondary School –*** Completed with 78% **2015-2016**

**Secondary Education – Computer Science Mettupalayam, TN**

***Metro Matric Higher Secondary School –*** Completed with 92% **2013-2014**

**SKILLS**

**Programming Languages :** C#, React, Python, SQL, Influxdb, Html-Css, Javascript, jQuery, Bootstrap, PHP and MySql

**Technologies :**  .Net Core, Azure, CI/CD pipelines, Blazor, Flask, Grafana, Blazor, Git and Docker.

**Concepts :** Machine Learning, Artificial Intelligence, Web & Application Development and Scripting.

**EXTRACURRICULARS & AWARDS**

* Got Awarded with **TCS GEMS AWARD** for Certificate Expiry Tracker **- TCS (Sept 2022)**
* Awarded with Star of the Month Award – **TCS (Sept 2022)**
* Completed **Advanced Diploma in Python Programming** with A+ grade – **CSC Computer Education (Dec 2021)**
* Completed **Full Stack Web Development** with A grade – **CSC Computer Education (Oct 2021)**