Akilan Venkatachalam

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SKILLS

Languages: C, VB.NET, C/C++, JSON, LISP

Technologies: .NET Framework, JSON.NET, Windows Forms (WinForms), AutoLISP, MySQL, Git

Methodologies: Agile, Scrum, OOP, Functional Programming, Software Development LifeCycle (SDLC), RESTful API

EXPERIENCE

RGS Construction Technologies Pvt. Ltd.   Chennai, INDIA

.NET Developer   *April 2022 – Present, Full-time*

- Drove the end-to-end development of RGS Rebar, an AutoCAD Windows extension, utilizing C, VB.NET, and Windows Forms to build complex user interfaces and core functionality
- Ensured code maintainability and facilitated future development through clean coding practices and thorough technical documentation.
- Significantly improved RGS Rebar's data handling and performance by implementing efficient JSON parsing for data storage and exchange. This methodology increased data handling performance by more than 30
- Ensured the high quality and stability of RGS Rebar through the creation and execution of detailed testing plans, along with meticulous documentation of test procedures and results.
- Played a key role in defining the scope and direction of RGS Rebar by effectively gathering, documenting, and translating client requirements into actionable development tasks, maintaining a well-organized repository of project documentation.
- Provided technical leadership and mentorship to a team of three developers, conducting code reviews and promoting best practices, with a strong emphasis on code readability, maintainability, and the importance of effective documentation.

EDUCATION

Anna University (Madras Institute of Technology)   Chennai, INDIA

Bachelor of Technology in Information Technology   *Graduated Apr 2020*

Relevant coursework: Data Structures and Algorithms, Operating Systems, Computer Networks, Software Engineering, Database Management Systems, Web Development, Programming in Java, Python Programming.

PROJECTS

Load Balancing and Power Management for Cloud Datacenters with Renewables:

- Development of Dynamic Power and Load Balancing System based on Modified Bacterial Forging Optimization Algorithm (M-BFOA).
- Developed a scalable algorithm with 35% better execution rates than existing algorithms reducing number of migrations by 45%.