

SWARNIM BARAPATRE

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EDUCATION

BITS, Pilani

Dual Degree BE Chemical Engineering + MSc Biological Sciences

Goa

May 2019 - Aug 2024

WORK EXPERIENCE

Mastersoft

Software Developer

Nagpur

Aug 2023 - June 2024

- Spearheaded the development and maintenance of diverse variety of projects
- Developed and implemented innovative solutions such as an Employee Productivity Measurement, OpenAI APIs, and Website Vulnerability Scanner at Mastersoft, showcasing a strong blend of technical expertise and vision in software development
- Implemented robust automation systems for Azure Blob Storage & MS-SQL Server to streamline repetitive operations and reduce human error
- Achieved significant cost savings notably via Employee Productivity System and SQL Suite of Tools
- Developed numerous APIs using with robust error-handling and security features leveraging Bearer Tokens and JWTs
- Played a pivotal role in resolving critical Linux issues across company-wide servers, minimizing downtime and data loss risks

SKILLS

Skilled: Python, Flask, FastAPI, Linux Servers
Intermediate: Powershell, Bash Scripting, Git, Vim, L^AT_EX, Nginx, MS-SQL, Go
Beginner: C, C++, Java, Pascal, DSA

PROJECTS

Employee Performance System

[Git](#)

Crafted and developed the Employee Performance System, an innovative tool that streamlines productivity tracking by offering a cost-effective, and robust solution. This system not only enhances employee efficiency but also enables confident remote recruitment. The development removes the need of purchasing an external service, resulting in a substantial annual cost saving of Rs 53 Lakhs annually. The success of this project paves the way for future market launch and revenue generation. Technologies used: Python, Psutil, Requests, Threading, Win32 APIs, Powershell, Pascal, Windows Task Scheduler, etc.

Persistent Queue System

[Git](#)

Developed the Persistent Queue System to automate time-intensive tasks efficiently, enabling remote task addition and FIFO completion. The system features a persistent queue that ensures resilience against system crashes, with ongoing development to introduce optional asynchronicity for enhanced processing speed. Technologies used: Python, FastAPI, JSON.

OpenAI APIs

[Git](#)

Developed a suite of APIs, harnessing the power of GPT-3.5 and GPT-4 to enhance educational practices through automated grading, report generation, textbook-based question paper generator, and dynamic course outcome creation. Technologies used: Python, Flask, FastAPI, MS-SQL, etc.

MS-SQL Suite of Tools

[Git](#)

Crafted the MS-SQL Suite of Tools, a robust set of utilities tailored for SQL developers and database administrators to streamline workflow processes. Designed to automate tasks, the tools include features such as identifying undropped temporary tables, comparing stored procedures across databases, and visualizing differences in a color-coded HTML format. Technologies used: Python, Difflib, Sqlparse, and MS-SQL.

EXTRA CURRICULARS

Swimming

- Represented Maharashtra in National Level Swimming Competitions multiple times (SFI and School Nationals)
- Multiple times State Level Championship Gold Medalist