SWARNIM BARAPATRE

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EDUCATION

BITS, Pilani — Goa
Dual Degree: BE Chemical Engineering + MSc Biological Sciences — May 2019 - Aug 2024

WORK EXPERIENCE

Mastersoft — Nagpur
Software Developer — Aug 2023 - June 2024

- Developed and implemented innovative solutions such as an Employee Productivity Measurement, OpenAI APIs, and Website Vulnerability Identifier, 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
- Developed APIs adhering to industry standards, prioritizing reliabilty and efficiency.
- Implemented thorough error-handling procedures, fortifying systems against potential failures.
- 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, LaTeX, Nginx, MS-SQL, Go
Beginner:	C, C++, Java, Pascal, DSA

PROJECTS

Employee Performance System [Git]

Designed and developed the Employee Performance System, an innovative multi-tenant application that streamlines productivity tracking by offering a cost-effective and intuitive solution. This system not only enhances employee efficiency but also enables confident remote recruitment. This application eliminated the reliance on external services, leading to an impressive annual cost reduction of **Rs 53 Lakhs**. The success of this project positions the organization for future market expansion, and revenue generation.
Languages: Python, Powershell, Pascal
Libraries: Psutil, Win32 APIs, Threading, Requests, 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.
Languages: Python
Libraries: FastAPI, Asyncio, Pydantic, Httpx, etc

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.
Languages: Python, MS-SQL
Libraries: Flask, FastAPI, PyODBC

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 optimizing memory consumption by identifying memory leaks, comparing stored procedures across databases, and visualizing their differences via automated reports and split diff views.
Languages: Python
Libraries: Difflib, Sqlparse, PyODBC

EXTRA CURRICULARS

Swimming: Represented Maharashtra in Swimming Nationals. Multiple State Level Gold Medalist.