MANTHAN PANDEY
SENIOR SOFTWARE ENGINEER

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Websites
- https://www.linkedin.com/in/manthanpandey
- https://github.com/manthan038

Skills & abilities
- C++ / Programming & Dev
- Multithreading/OOPs
- DBMS(SQL/No-SQL)
- Tool Command Language (TCL)
- Data Structures & Algorithms
- Python-Data Analysis/ML
- Shell scripting/Linux
- Azure – Pipe/ADF/ADLS
- GDB / Valgrind
- SQL Server Integration Services
- Microsoft Power BI
- Machine Learning Algorithms

Experience

SENIOR SOFTWARE ENGINEER | SYNOPSYS
Noida, India | January 2024 – Current
SOFTWARE ENGINEER
Noida, India | August 2021 – December 2023
- Works on **Automatic Compiler Characterization** (AutoChar) tool to new feature implementation and bug fixes
- Implemented logics, for instance evaluation tool that checked logical inconsistencies and anomalies in data characterized by AutoChar.
- **Performed extensive debugging** and profiling using **GDB / Valgrind** to resolve critical issues in C++ code.
- Built utilities using **Tool Command Language** (TCL), **C++, OOPs**, **STL,** and **multithreading** to support new simulations for characterization.
- Wrote **SQL, bash, and TCL** scripts to manage end of the day (EOD) tasks.
- **Troubleshooting, debugging**, and upgrading existing systems.
- Handles the analysis, **development, unit testing**, **review**, **supports** and **documentation** of the various requirements.

ASSOCIATE SOFTWARE ENGINEER | MAQ SOFTWARE
Hyderabad, India | August 2020 - August 2021
- Worked on **Azure Data Factory** (ADF) to orchestrate the ingestion of data from various sources like **Azure tables, Azure SQL Database, Azure SQL DWH, Azure Storage Blob**, and **on-premises databases** to **Azure Data Lake Storage.**
- Scheduled jobs in Flows and **ADF pipelines.**
- Created **stored procedures** (SP) using **common table expression** (CTE) and various type of UDF functions and developed complex **T-SQL queries**, CTEs, SPs, **Triggers,** and **Views.**
- Developed and published **reports** and dashboards using **Power BI** and written effective **DAX** formulas and expressions.
- User SQL profiler for troubleshooting, monitoring, and optimization of **SQL Server** and non-production database code.
- Converted the existing Power BI custom graph to Typescripts from JavaScript in Microsoft Power BI.

Education

BACHELOR OF TECHNOLOGY (HONS.) | LOVELY PROFESSIONAL UNIVERSITY
Computer Science and Engineering | July 2017 – June 2021
- Final Grade: 8.27 CGPA

Achievements
- **Award for Algorithm Optimization** : Implemented new algorithms in the Instance Evaluation Tool, achieving a 5x performance improvement, which significantly enhanced the tool's efficiency and accuracy.
- **Innovation in Compiler Characterization :** Developed a novel idea that streamlined the compiler characterization and validation steps, increasing the productivity and accuracy of R&D engineers.
- **Passion for Excellence :** Recognized for outstanding passion and dedication to my work, consistently producing high-quality results and motivating the team.
- **Smart Teamwork Award :** Honored for exceptional teamwork and collaboration, contributing to the success of complex, cross-functional projects and fostering a cooperative team environment.
- **Published Author :** Authored multiple articles on competitive programming, providing valuable insights and strategies, demonstrating a commitment to knowledge sharing and ongoing learning

Languages
- **English**
- **Hindi**