

Siva Kumar

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Professional Profile

Detailed-oriented and analytical Information Technology professional with a focus on database systems and data-driven problem-solving. Skilled in Python, SQL, and database technologies including PostgreSQL, SQLite, and MySQL. Experienced in designing, implementing, and optimising relational databases for efficiency and accuracy. Adept at translating technical data insights into practical business improvements, with a commitment to data integrity, system reliability, and continuous learning in modern data engineering practices.

Key Skills Summary

Technical Skills

Languages: Python, SQL, C, C++

Database: PostgreSQL, SQLite, MySQL

Database implementation

Personal Attributes

Strong attention to detail

Analytical mindset

Methodical and structured approach

Passion for data quality and best practices

Achievements

- Proactively observed and learned debugging techniques from the IT team, enabling independent resolution of recurring issues and reducing store downtime.
- Systematically reorganised existing stock to optimise space and accommodate new inventory efficiently.
- Enhanced fruit-picking accuracy as a second checker, improving overall team productivity by 80%
- Supported store management and staff with clerical and back-end tasks such as inventory management, allowing the floor team to prioritise customer service and revenue generation.

Professional Experience

IT Support Analyst (Voluntary)

April 2022 - Present

APG and Co Pty. Ltd., Sydney

- Efficiently provided first-level troubleshooting and user support for staff across hardware and software issues, reducing downtime due to such errors by over 200%
- Accurately assisted with device setup, software installations, and email configuration for new and existing users, decreasing time taken for set-ups by 80%
- Promptly coordinated with internal IT teams to escalate and resolve advanced technical issues

Notable Projects

Custom PostgreSQL Data Type

- Database implementation project to extend PostgreSQL functionality with a custom data type with C.
- Designed, implemented and tested a custom type in PostgreSQL; documented schema integration.
- Delivered a reusable type.
- Strengthened database customisation and extension skills.

Join Order Optimization

- Database implementation project to develop an engine that optimises join order in database queries with PostgreSQL.
- Designed algorithms to estimate join costs, implemented and tested optimisation strategies.
- Improved query execution efficiency.

- Learned DB cost-based optimisation and advanced SQL.

University Data Querying and Analysis

- Database analysis project to query, extract and analyse university datasets using advanced PostgreSQL, views, functions and triggers.
- Designed and optimised queries, implemented triggers and views to streamline reporting, tested query performance.
- Delivered efficient database queries and reports.
- Gained proficiency in relational DB design, query optimisation, and PostgreSQL functions.

Professional Development

IT Professional Year Programme (ACS)

Performance Education, Sydney, NSW

May 2025 - Present

- Trained in Australian Business Culture, industry practices, technical communication and presentation skills.
- Gaining practical experience to enhance employability in the IT sector

Education

Masters in Information Technology

University of New South Wales

Feb 2023 - Mar 2025

Relevant subjects: Data Services Engineering, Big Data Management, Database Management System, Database Implementation

Bachelors in Electronics Engineering

Singapore University of Social Sciences

Jan 2015 - Mar 2020

Certification

SAP-ERP

Lithan Hall Academy Pte Ltd, Singapore

2019

Interest and Hobbies

- Learning about technologies in other IT sectors
- Study aviation incident case studies to learn human factors, risk management, Crew Resource Management and problem-solving.

Reference

Available on request