Emily Chen

Database Administrator

Contact

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📍 San Jose, CA

Professional summary

Detail-oriented Computer Science graduate with academic training in relational databases, SQL scripting, and data modeling. Adept at managing data integrity and optimizing queries through class projects and volunteer experience. Seeking to launch a career as a database administrator by contributing to robust and secure data environments.

Links

in emchen

Education

Bachelor of Science in Computer Science, San Jose State University │ San Jose, CA │ Graduated May 2025

GPA: 3.7 │ Relevant Coursework: Database Design, Systems Programming, Data Structures

Certifications

- Oracle Database Foundations │ Oracle University │ Issued Mar 2025
- Microsoft Certified: Azure Data Fundamentals │ Issued Apr 2025

Additional Information

Member of SJSU Women in Tech Club

Skills

Skill	Level
SQL & PL/SQL	●●●●●
PostgreSQL, Oracle DB, MySQL	●●●●●
Entity-Relationship Modeling	●●●●●
Backup & Recovery Strategies	●●●●●
Data Normalization	●●●●○
Query Optimization	●●●●●
Shell Scripting	●●●●●

Languages

✳️ Fluent in Mandarin and English

Experience

IT Support Volunteer, City of Mountain View Library, Mountain View, CA

January 2025 - May 2025

- Migrated over 1,200 patron records from Excel to a MySQL database, ensuring data consistency, reducing redundancy, and aligning formats with internal standards.
- Developed SQL queries to analyze borrowing trends, supporting quarterly library performance reports used by administrative staff.
- Created ER diagrams in Lucidchart to assist stakeholders in visualizing relationships between entities during system upgrades.
- Worked alongside librarians and IT contractors to ensure zero data loss during the digital transition project, which spanned four departments.

Capstone Database Project – Student Developer, San Jose State University, San Jose, CA

August 2024 - December 2024

- Designed and implemented a fully normalized PostgreSQL database for an e-commerce simulation, integrating 10+ relational tables and enforcing referential integrity.
- Executed advanced queries for customer segmentation and order tracking, increasing data retrieval efficiency through index implementation.
- Wrote stored procedures and created automated triggers for stock level management, streamlining simulated operations with real-time updates.