JULIAN MERCER

SQL FULL STACK DEVELOPER

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PROFESSIONAL SUMMARY

SQL Full Stack Developer with 7+ years designing relational schemas, tuning queries, and building the web applications on top of them at Zillow and Expedia. Comfortable moving between PostgreSQL, SQL Server, C#, and React to ship data-heavy features.

CORE SKILLS

SQL | PostgreSQL | SQL Server | Query optimization | Schema design | Stored procedures | Indexing | Data migration | C# | .NET | React | Node.js | Redis | dbt | Docker | Git

PROFESSIONAL EXPERIENCE

Full Stack Developer Apr 2021 - Present
Zillow, Seattle, WA

- Redesigned the PostgreSQL schema behind the saved homes feature and added composite indexes, cutting list page query time from 1.4 seconds to 280 milliseconds.
- Wrote window-function reports for agents covering lead response and tour conversion, replacing a manual spreadsheet used by 3,500 agents each week.
- Built a React and Node.js screen for comparing homes, reading from materialized views refreshed every ten minutes to keep load off the primary database.
- Reviewed query plans for the ten slowest endpoints each quarter and rewrote them, reducing database CPU at peak by about 22%.
- Led a zero-downtime migration that split a wide listings table into four normalized tables, with backfill scripts and a rollback plan tested in staging.

Software Developer Jul 2018 - Mar 2021
Expedia Group, Bellevue, WA

- Developed C# and SQL Server stored procedures for hotel rate and availability lookups, supporting 40 million searches a day through a caching layer.
- Added partitioning to a bookings history table of 600 million rows, bringing monthly archive jobs from six hours down to under one.
- Built an internal React dashboard that let finance staff run reconciliation queries safely, with parameterized inputs and row limits.
- Introduced SQL unit tests with tSQLt and checks in the build pipeline, catching broken joins before they reached the shared test database.
- Replaced cursor loops in three nightly jobs with set-based statements, trimming the combined run time from 95 to 30 minutes.

Database Developer Intern Jun 2017 - Aug 2017
Tableau, Seattle, WA

- Wrote SQL to profile customer usage tables and flagged duplicated records, which the data team used to clean about 80,000 rows.
- Prototyped a small web form in JavaScript that wrote survey answers into a PostgreSQL table with basic constraints and validation.
- Presented findings on data quality to the analytics group and suggested foreign keys that prevented orphaned records in the usage tables.

EDUCATION

B.S. in Information Systems, Western Washington University, Bellingham, WA

CERTIFICATIONS

Microsoft Certified: Azure Database Administrator Associate | Oracle Database SQL Certified Associate