Kai Wong

Database Performance Engineer

Email: kai.wong@email.com

Location: Hong Kong

Experience: 7 years

Professional Summary

Database performance specialist with 7 years experience optimizing high-scale database systems. Expert in SQL optimization, distributed databases, and Python automation.

Professional Experience

Senior Database Performance Engineer | Financial Trading Platform | 2021 - Present

- Optimized trading database systems handling 1M+ transactions per second using advanced SQL techniques

- Built database monitoring system using Python detecting performance issues before customer impact

- Led database engineering team of 5 optimizing distributed PostgreSQL clusters

Database Engineer | E-commerce Platform | 2019 - 2021

- Implemented database sharding strategy supporting 100x user growth using PostgreSQL and Python

- Developed automated database backup and recovery system achieving 99.99% data durability

- Built query optimization framework reducing average response time by 80%

Junior Database Administrator | SaaS Company | 2018 - 2019

- Maintained MySQL databases supporting multi-tenant application architecture

- Developed database performance monitoring scripts using Python and SQL

Database Intern | Consulting Firm | 2017 - 2018

- Assisted with database migration projects and performance tuning

- Learned database administration fundamentals and SQL optimization techniques

Technical Skills

- **Databases:** 7 years SQL, 5 years PostgreSQL, 4 years MySQL, 2 years MongoDB
- **Programming:** 5 years Python, 3 years Java, 6 years Linux
- **Performance:** 6 years Database Optimization, 4 years Distributed Systems
- **Leadership:** 2 years Team Management

Certifications

- **PostgreSQL Certified Professional**
- **MySQL Database Administrator Certification**
- **Oracle Performance Tuning Specialist**

Education

M.S. Computer Science | Hong Kong University of Science and Technology | 2017
B.S. Information Systems | Chinese University of Hong Kong | 2015