

Akshat Agarwal

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Professional Summary

Data-driven professional with strong background in cybersecurity and hands-on experience in SQL/DBA administration and quantum computing research. Skilled in penetration testing, database optimization, and secure application development. Currently training in SQL DBA under TCS Xceed program.

Experience

Tata Consultancy Services (TCS)

SQL DBA Training & Development | August 2024 - Present | Xceed Program

- Comprehensive SQL DBA training: query optimization, database administration, performance tuning
- Perl scripting for automation of database tasks and ETL-related scripts
- Transaction management, indexing strategies, backup/recovery procedures
- Production database support and troubleshooting collaboration

AvinyaSq

R&D Intern – Quantum Cryptography | May 2024 - August 2024

- Researched quantum cryptography protocols and secure communications implementation
- Analyzed quantum key distribution mechanisms and post-quantum cryptographic algorithms
- Documented findings and contributed to research papers on quantum-resistant encryption
- Explored integration of quantum cryptography with classical security infrastructure

Panacea InfoSec

Security Testing Team Intern | June 2022 - July 2022

- Conducted passive scans and web application penetration testing

- Documented security findings with comprehensive vulnerability reports and recommendations
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Education

Vellore Institute of Technology (VIT)

B.Tech in Computer Science and Engineering | Information Security Specialization
September 2020 - May 2024

Relevant Coursework: Cyber Security, Penetration Testing, OOPS (Java), Web Development, Vulnerability Analysis, Algorithms and Data Structures

Technical Skills

Languages: C, SQL, Perl, Python, Java, HTML, CSS, JavaScript

Database & DBA: SQL, Oracle, MySQL, Query Optimization, Indexing, Backup/Recovery, Transaction Management

Cybersecurity Tools: Burp Suite, Metasploit, Nmap, Sqlmap, ZAP Proxy, OpenSSL, John The Ripper

Development & Infrastructure: Django, Git, Linux, Docker, Machine Learning (SVM, Naive Bayes, Voting Classifier)

Emerging Technologies: Quantum Cryptography, Machine Learning, Computer Vision (OpenCV)

Projects

Network Attack Detection Using Machine Learning

January 2024 - May 2024 | Python, HTML, CSS, JavaScript

- Developed multi-model ML strategy (Chi2, RFE, Lasso, SVM, Naive Bayes, Voting/Stacking Classifiers) achieving 100% accuracy
- Implemented secure authentication and prediction interface

AI Face Mask Detection

July 2023 - November 2023 | Python, OpenCV

- Built real-time face mask detection application using deep learning and OpenCV
- Deployed for public health monitoring and mask-wearing compliance enforcement

Online Flight Booking Website with Cybersecurity Hardening

December 2021 - April 2022 | JavaScript, HTML, CSS

- Developed functional flight booking application with comprehensive security hardening
 - Simulated and mitigated four attack vectors: SQL Injection, XSS, HTML Injection, Path Traversal
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Certifications

- **Cyber Security Essentials** – CISCO Network Academy (January 2023)
- **NPTEL Ethical Hacking** (April 2023)
- **Advanced Software Engineering Virtual Experience Program** (June 2023)
- **Tata Group Cybersecurity Analyst Job Simulation** (April 2024)
- **TCS Xceed SQL DBA Training Program** (November 2024 – December 2024)