# Suchita Arvind Dabir

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## SUMMARY

Passionate Software Specialist with over 5 years of professional software development experience in building distributed and highly scalable fault tolerant systems. Skilled in translating complex requirements into reliable and accurate solutions with proven proficiency in software development lifecycle and DevOps.

**Technical Skills:**

**Languages**: C, C++, Java, Python, TypeScript | **Scripting:** Bash, Perl | **OS:** Windows, Linux, macOS

**Server**: Django, Express, Nginx, Postman | **Database**: Oracle, SQL, MySQL, MongoDB, PostgreSQL

**Tools & Technologies**: Spring Boot, React Native, Docker, Kubernetes, AWS, Apache Kafka, Jenkins, Hibernate, TCP/IP

**Certifications:** "Parikshak Certificate" by CDAC 2017, Programming using Python

**Accomplishments:** Won "Best product Launch of the year – FY 2021-22" for the design of new derivatives tools

## EDUCATION

**Northeastern University**, Boston, MA                                                               **May 2025**
Master of Science in Information Systems

**Center for Development of Advanced Computing,** Mumbai, India                      **Feb 2017**
Post Graduate Diploma in Advanced Computing

**University of Mumbai**, Mumbai, India                                                                **May 2016**
Bachelor of Engineering in Information Technology

## PROFESSIONAL EXPERIENCE

**3i Infotech Ltd.,** Mumbai, India

*Software Specialist*                                                                          **Sep 2017 – Jan 2023**

- Built and maintained a web-based trading platform for diverse financial products by implementing socket programming for real-time communication while ensuring synchronization using locking and buffering mechanisms.
- Improved the data report load time by 30% through optimized database reads with SQL loader for large files.
- Deployed patches for a modified packet API by performing packet header parsing, data extraction, and writing database schema for seamless integration and storage of updated values.
- Implemented SQL scripts along with database objects, including tables, views, and materialized views in accordance with the necessary business rules and procedures.
- Developed and generated comprehensive revenue reports as a key contribution to business analytics and financial insights by leveraging data analytics tools.
- Architected high-performance, multithreaded applications for efficient market data processing and order execution.

## ACADEMIC PROJECTS

- **E-commerce Website:** Developed a web application employing Spring MVC framework and Hibernate ORM for robust data management and MySQL database integration, enabling seamless buying and selling of products online.
- **Movie Database Management System:** Designed a structured database that organizes, saves, and retrieves crucial movie details, cast/crew information, and more using relational SQL design, data modeling, and data normalization.
- **Media Processing Cloud Application:** Built stateless, containerized based image and video processing lambda functions which can be deployed via Docker and/or Kubernetes to achieve scalability, resiliency, and redundancy.