APURV SAWANT

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EDUCATION:

UNIVERSITY OF ILLINOIS, URBANA-CHAMPAIGN *Aug 2024 - Dec 2025*

Masters in Computer Science | Siebel Center for Computing and Data Science

VISHWAKARMA INSTITUTE OF TECHNOLOGY, PUNE *July 2017 - June 2021*

Bachelor of Technology in Computer Engineering | CPA: 9.14/10

PROFESSIONAL EXPERIENCE:

DEUTSCHE BANK - Associate (Technology, Data and Innovation) July 2021 - Aug 2024

- Optimized existing algorithms for 10+ processes across 3 applications and revamped the system design, boosting performance by 60%. The redesigns also made the applications scalable, robust, and easily maintainable.
- Automated a critical manual workflow by implementing a parsing algorithm for extracting financial instruments and seamlessly integrating it with existing systems, reducing execution from 8 hours to 20 mins.
- Removed third-party vendor integrations by embedding outsourced functionality directly into the application, leading to substantial cost savings and retaining important data within the bank's internal systems.
- Developed and integrated 12 new features and processes into existing application workflows.
- Upgraded two legacy applications by migrating from a monolithic architecture to microservices, replacing existing front-end, back-end, and communication stack, and transitioning deployments from WebLogic to the cloud.

Awards and Achievements:

- Recipient of the coveted 'Deutsche Bank Recognition Award' for outstanding contribution to technology and innovation
- Extra Miler Quarter 1, 2023
- Deutsche Bank Associate Cloud Engineer

TROOPR LABS INC - Software Development Intern *Dec 2020 - June 2021*

- Managed a comprehensive overhaul of 10+ core process flows by reducing the number of microservices and database calls, optimizing database queries, and cutting down processing time from 13 seconds to 1 second.
- Led the end-to-end delivery and launch of key product features, facilitating the onboarding of major industry clients and expanding the company's client base by 40%.

DEUTSCHE BANK - Intern (Technology, Data and Innovation) *June 2020 - July 2020*

- Designed and developed an exception management system for managing, analyzing, and reporting logs and errors from 10+ data pipelines across multiple business units. Built using Spring Boot, react, and PostgreSQL; deployed on GCP.

Recognitions:

Best Technology intern, Class of 2020, among 350 interns.

PERSISTENT SYSTEMS - Industry Collaboration Project *Jan 2020 - May 2020*

- Developed a novel approach for a disease prediction system using iterative and recursive machine learning models to decompose core searches into step-by-step subsystems.
- Achieved 92% accuracy in prediction.

TECHNICAL SKILLS:

- Data Structures, Algorithms, OOPs, Design Patterns, System Design, Microservices, REST APIs, Distributed Systems
- JAVA, Python, C++, SQL (Oracle), NoSQL (MongoDB), NodeJS, Sockets, Kafka, ActiveMQ, Redis
- Web Development, JavaScript, React, HTML, CSS, ExpressJS
- GCP, Openshift, Teamcity, Docker, Kubernetes, Jenkins

HACKATHONS AND COMPETITIVE CODING:

- Deutsche Bank Global Hackathon, 2023 - The year of AI Third prize, among 1700 participants.
- VIT Pune Hackathon 2019, secured first position among 400 participants.
- Lead, GCC (Group of Competitive Coders), a competitive coding club in VIT Pune, 2019-2020.

ONLINE COURSES:

Algorithmic Toolbox, UC San Diego **|** Design Patterns, University of Alberta **|** Object Oriented Design, University of Alberta **|** Master Microservices with Spring Boot and Spring Cloud, Udemy **|** Spring Framework Master Class, Udemy **|** Structuring Machine Learning Projects, deeplearning.ai **|** Neural Networks and Deep Learning, deeplearning.ai **|** Applied Text Mining in Python, University of Michigan **|** Applied Plotting, Charting & Data Representation in Python, University of Michigan **|** Introduction to Data Science in Python, University of Michigan **|** Machine Learning with Python, IBM