

# ADITYA PATIL

Chandler, AZ

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## EDUCATION

### Master of Science in Software Engineering, Arizona State University

Aug 2024 – May 2026

Courses: Advanced Data Structures & Algorithms, Agile Software Development, Software Security

Phoenix, AZ

### Bachelor of Engineering in Computer Engineering, Savitribai Phule Pune University

Aug 2019 – May 2023

Courses: Data Science and Big Data Analytics, Machine Learning, Cloud Computing, DBMS, DSA

8.96 CGPA

## TECHNICAL SKILLS

**Languages:** Java(11+), C, C++, Python, JavaScript, HTML, CSS, SQL (PostgreSQL, Oracle, MySQL)

**Libraries & Frameworks:** React, Express, Node.js, Next.js, Restful APIs

**Databases:** PostgreSQL, Oracle, MySQL, MongoDB, MS SQL Server, Firebase, GraphDB, SPARQL

**DevOps Tools:** Docker, Kubernetes, Jenkins, CI/CD Pipelines, Git, GitHub, Linux, Gradle, Maven, Scrum

**Cloud Technologies:** AWS(EC2, S3)

## EXPERIENCE

### Associate IT Application Specialist, Veritas Technologies LLC

July 2023 – Aug 2024

- Analyzed and optimized systems data using **SQL**, streamlining **ETL processes**, improving **data flow** efficiency by **30%** and reducing query times by **40%**.
- Optimized database queries in **PostgreSQL**, **Oracle**, and **MS SQL Server**, improving transaction efficiency and reducing query execution time by **40%**.
- Developed and deployed **CI/CD pipelines** using **Jenkins** and Bitbucket, reducing deployment time by **25%** and improving system reliability.
- Led database migration projects, ensuring secure data transfer and compliance with PCI standards.
- Developed and implemented automated data validation tools using **Pandas** and **NumPy**, ensuring accuracy and consistency, reducing manual work by **30%**, and utilizing **Appworx** for job scheduling, reducing processing time by **25%**.

### IT Intern, Veritas Technologies LLC

Jan 2023 – July 2023

- Developed the **Database Central Repository (DCR)**, one of the **top 10** projects in the company-led hackathon **competition**, optimizing data storage and improving team efficiency by **25%**. Built internal tools using **React** and **Node.js** to enhance data accessibility and streamline reporting.
- Designed custom **dashboards** for real-time monitoring of database, server, and application performance, boosting **operational visibility by 20%**, and implemented **data quality checks** for consistency in the central repository.
- Optimized **data pipelines** with **SQL/Python**, boosting efficiency by **30%**, and enhanced reporting with Oracle data analysis.

### React Developer Intern, Eluminous Technologies

Feb 2022 – May 2022

- Built and optimized React applications, integrating RESTful APIs and enhancing web performance by **30%**.
- Collaborated with **DevOps** to streamline deployment using **Docker** and **Git**, reducing deployment time by **20%**.
- Utilized **React hooks**, **Context API**, and **state management** libraries for optimized workflows and modular architecture.

## PROJECTS

### Travel Path - ItineraryPlanner | (View)

Nov 2024 - Dec 2024

- Analyzed and integrated **GNIS-LD datasets**, leveraging **GraphDB** and **SPARQL** queries to deliver context-aware, personalized travel itineraries based on user preferences.
- Utilized ReactJS for front-end development and **PostgreSQL** for backend storage, optimizing real-time updates with **FastAPI**.
- Incorporated **semantic data analysis** through knowledge graphs, improving data accuracy and enriching the overall user experience.

### Scrum Simulator

Oct 2024 - Nov 2024

- Developed a Java (11+) based Scrum simulation tool, implementing GitFlow and trunk-based development for **Agile** team collaboration.
- Led sprint execution and facilitated **Scrum** ceremonies (e.g., **sprint planning**, retrospectives), optimizing team workflows and improving delivery efficiency by **20%**.

## LEADERSHIP / EXTRACURRICULAR

### Technical Secretary, Association of Computer Engineering

Mar 2022 – Jun 2022

Led technical initiatives, organized workshops, & collaborated with teams on software development best practices.

ADYPSOE, Pune