

YUTIKA KIRAN VORA

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EDUCATION

Master of Science | Information Technology

Arizona State University, USA

May 2025

GPA: 4.00/4.00

Courses Taken: Principles of Computer & Information Technology Architecture, Advance Information Systems Security, Information Systems Development, Advance Database Management System, Advanced Big Data Analytics/AI, Data Visualization & Reporting for IT, NLP, AWS Cloud Architecture

Bachelor of Engineering | Information Technology

University of Pune, India

July 2022

GPA: 4.00/4.00

TECHNICAL SKILLS

- Programming Languages: Java, Python, C++, JavaScript, SQL
- Frameworks & Tools: React.js, Spring Boot, Hibernate, AWS Lambda, Google Cloud Functions, JIRA, Git
- Databases & Frameworks: MySQL, SQL Server, Distributed Systems, Scalable Applications
- Machine Learning: Supervised/Unsupervised Learning, NLP, Pipeline, Classification, Clustering, Regression.
- Cloud & DevOps: Google Cloud, CI/CD Pipelines, Docker
- Machine Learning & Data Processing: Pandas, NumPy, Scikit-learn, NLP, Data Mining, ETL Pipelines

PROFESSIONAL EXPERIENCE

Software Engineer II

American Express

January 2025 - Present

Arizona, USA

- Developed a **React.js-based chatbot** using **Rasa UI**, automating customer support processes.
- Built and optimized **microservices** with **Spring Boot** and **AWS**, improving API performance by **30%**.
- Implemented **Docker** for containerization and integrated **CI/CD pipelines**, streamlining deployment and testing.
- Enhanced **database performance** by optimizing queries, reducing execution time by **40%**.
- Improved **security measures**, decreasing vulnerabilities by **35%** to meet PCI-DSS compliance.

Learning Assistant (Engineering Tutor)

Ira A. Fulton School of Engineering-Arizona State University

July 2024 - Present

Arizona, USA

- Instructed 150+ students in Data Structures, Algorithms, Software Engineering, Programming Languages, Foundations of Data Visualization.
- Developed and implemented structured problem-solving strategies, resulting in a 15% improvement in student performance.
- Led 12+ hands-on workshops focusing on software development principles, version control, debugging techniques to enhance practical skills.
- Designed and facilitated engaging learning experiences, fostering critical thinking and advanced technical proficiency in students.

Software Engineer

Synechron Technologies

January 2023 - August 2023

Pune, India

- Designed and implemented cloud-based banking systems using Spring Boot and Hibernate to ensure high availability and performance.
- Developed a high-performance customer portal hosted on AWS/GCP with React.js, leading to a 25% improvement in user experience (UX).
- Built and deployed automated ticketing system using AWS Lambda, enhancing monitoring capabilities and reducing resolution time by 40%.
- Collaborated with cross-functional teams, leveraging CI/CD pipelines, JIRA, and Git for efficient development and project management.

Software Engineer

Einfochips Private Limited

January 2022 - December 2022

Pune, India

- Developed cloud-hosted applications using React.js enhancing performance by 20% through optimized architecture, efficient coding practices.
- Designed and implemented distributed backend services on AWS, ensuring high scalability and fault tolerance for seamless performance.
- Collaborated in cross-functional Agile teams, accelerating project delivery by 15% while improving team productivity and communication.
- Implemented cloud-based DevOps practices, including CI/CD pipelines, and testing with JUnit, reducing bugs by 30% and ensuring reliable, scalable deployments.

ACADEMIC PROJECTS

Enhancing School Selection through Similarity Matching

January 2024 - April 2024

- Developed a structured multi-step process documented to achieve brief project goal efficient data processing, automated workflow execution.
- Implemented key methodologies and tools to enhance accuracy, efficiency, and scalability in data analysis and software deployment.
- Designed and documented systematic procedures, ensuring clear reproducibility and ease of integration into existing workflows.
- Contributed to optimization and troubleshooting, leading to improved performance and reliability of the overall system.

Inventory Management System

May 2023 - August 2023

- Conducted network traffic analysis using Wireshark and Python to identify and mitigate security threats.
- Implemented real-time monitoring for early detection of malware, intrusions, and anomalous IP address activity.
- Enhanced network security by analyzing traffic patterns, identifying vulnerabilities, and ensuring regulatory compliance.
- Contributed to proactive threat management and improved incident response through continuous network evaluation.

Clothing Recommendation System for E-commerce

July 2021 - December 2021

- Contributed to the development of a comprehensive project plan for Intech's IT Asset Management (ITAM) initiative, ensuring alignment with organizational goals.
- Conducted an in-depth analysis of Intech's existing IT systems to identify key problem areas, such as data duplication and inconsistencies.
- Proposed a centralized IT asset management system utilizing SQL Server and Power BI to enhance data visibility and reduce inconsistencies.
- Identified and documented key project stakeholders, including leadership, IT personnel, employees, and customers, to ensure their needs were addressed throughout the project lifecycle.

IT CERTIFICATIONS

Python For Data Science - Cleared With 64% Marks NPTEL IIT MADRAS)

Introduction To Programming Using Python - Microsoft Technology Associate, Pune.

AWS Academy Cloud Foundations Graduate