

YASH PATEL

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EDUCATION

California State University - Fullerton
Master's, Computer Science

January 2024 - January 2026
GPA: 3.5

Nirma University
Bachelor's, Computer Science

January 2018 - December 2022
GPA: 3

PROFESSIONAL EXPERIENCE

Optum
Software Developer

Hyderabad, TG, India
June 2022 - January 2024

- PAFx Team (DevOps Engineer)
- Designed and automated 10+ CI/CD pipelines, reducing manual efforts by 40%, streamlining data workflows. Extracted and processed 1TB+ of data daily from the parent team's cloud, ensuring accurate and timely delivery to downstream teams. Leveraged Apache Spark, Kafka, Jenkins, Airflow, and Oozie, improving data pipeline efficiency by 40%. Led migration from Java to Python, reducing execution time by 30% and cutting operational costs by 25%.
- PAFx Child Team (Backend & Data Processing)
- Developed and optimized backend services using Spring Boot, improving API response time by 35%.
- Integrated Angular for real-time data visualization, enhancing user accessibility and data retrieval. Extended data ingestion pipelines, automating collection from 50+ external websites, ensuring seamless integration with the parent team. Redesigned Kafka-based messaging, enabling real-time data streaming and reducing data lag by 50%.

Peanut Square
Software Developer

Ahmedabad, GJ, India
June 2020 - December 2022

- Created a scalable movie streaming platform using the MERN stack, supporting 1M+ monthly users.
- Designed and implemented RESTful APIs, reducing response time by 40% and ensuring efficient data interactions.
- Integrated a load balancer, improving system performance and handling 3x traffic spikes seamlessly. Collaborated with cross-functional teams, accelerating feature development by 30% and resolving 95% of critical issues.
- Ensured high availability with real-time monitoring and maintenance, maintaining 99.9% uptime. Deployed infrastructure using Docker, AWS, and Kubernetes, optimizing resource utilization. Managed source code in a Monorepo and utilized PostgreSQL for scalable data storage.

PROJECTS & OUTSIDE EXPERIENCE

Tree identification using ANN
Machine Learning Developer

Fullerton, CA, USA
February 2024 - March 2024

- Created a scalable ANN-based model for tree identification that handled 10,000 images, enabling real-time processing of species data and improving field data collection efficiency by reducing identification time by 40%. Conducted workload assessments and devised new operational processes that led to a 20% increase in productivity.

Parking-availability system using IOT
Full Stack

Ahmedabad, GJ, India
January 2023 - Present

- Devised a comprehensive IoT architecture that connects IR sensors to a Raspberry Pi, facilitating seamless data flow; this setup has enhanced parking monitoring capabilities and increased operational efficiency by 40%.

Online Classroom System using Micro service
Full Stack

June 2021 - November 2021

- Collaborated with a team to design a user-friendly interface hosting 50+ quizzes and assignments, enhancing student and educator engagement.
- Built and integrated APIs using Node.js (Express), Django, .NET, and Spring Boot, ensuring seamless cross-platform compatibility. Prepared a microservices architecture, improving system scalability and reducing downtime by 40%. Deployed the platform on AWS Serverless, optimizing resource utilization and achieving 99.9% uptime.
- Streamlined the learning process by improving navigation efficiency, reducing average task completion time by 30%.

SKILLS

Skills: Python, HTML/CSS, Java, Git, Adobe Illustrator, React.js, Node.js, MongoDB, Airflow, AngularJS, Apache Kafka, Apache Spark, AWS, C/C++, Django, Docker, JavaScript, MySQL, Next.js, SQL, TypeScript, Postgres, JUnit, REST APIs, GraphQL, PHP, Adobe After Effects, ASP.NET, Data Structure and Algorithm, Tensorflow, Machine Learning, ANN, Transformer, Azure, Agile, C#, Kubernetes