

Onkar Patole

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github.com/OnkarPatole28

TECHNICAL SKILLS

- **Programming Languages:** Python, Spark, Scala, Java, C
- **Tools and Technology:** Docker, Kubernetes, Terraform, Kafka, Micro-services, Power BI, Microsoft Excel, Airflow
- **Web Application Tools:** JavaScript, HTML, CSS, Django, React.js, TypeScript, Node.js, Express.js
- **Databases:** MySQL, MongoDB, DynamoDB
- **Cloud:** AWS - IAM, EMR, EC2, Redshift, Lambda, Kinesis, Glue, EKS, S3, DMS, QuickSight, CloudFormation

Education

Binghamton University, State University of New York Aug 2023 – May 2025

MS in Computer Science

Savitribai Phule Pune University

Aug 2017 – June 2021

Bachelor of Engineering in Electronics and Telecommunication in Computer Science

Work Experience

Michigan Health Information Network (MiHIN), Cloud SRE Intern | MI, USA June 2024 – Present

- Collaborating with development and QA teams to deploy cloud solutions using Terraform, Kubernetes, and Serverless Framework, improving system reliability and reducing deployment times by 25%
- Optimizing cloud infrastructure with Infrastructure-as-Code (IaC) practices, ensuring scalability, high availability, fault tolerance, and streamlining maintenance and troubleshooting of cloud systems
- Contributing to the development of CloudFormation stacks, automated scripts, and tools for managing cloud infrastructure, while implementing security protocols, reducing security incidents by 30%

LTIMindtree, Software Engineer | Pune, India

Jan 2022 – Aug 2023

- Built and executed an ETL pipeline on AWS with a team of developers, transforming and modeling data and optimizing storage; reduced processing time by 35% and improved data quality by 20%
- Built the design and execution of database migration strategies using AWS DMS, successfully handling over 100 terabytes of data and achieving a 40% increase in database performance
- Worked within an agile scrum team, contributing to 100% continuous improvement and deployment (CI/ CD)

Bristlecone, Associate Consultant | Pune, India

Aug 2021 – Nov 2021

- Collaborated with Data Analyst team to develop 15+ interactive dashboards and visualizations using Power BI; improved datadriven decision-making and reporting processes
- Leveraged advanced Excel techniques such as data modeling, macros, and conditional formatting to enhance data accuracy and streamline reporting workflows

Zenture IT Solutions, Software Engineer Intern | Pune, India

March 2021 – Aug 2021

- Designed and developed secure, scalable netbanking applications using Django in Python, achieving a 30% increase in system stability and a 25% reduction in server load through performance optimization
- Implemented REST APIs in microservices using Django REST Framework (DRF)

Projects

MERN Finance Dashboard

- Developed an interactive finance dashboard with TypeScript, Redux Toolkit, Material UI, and Recharts
- Designed a back-end with Node.js, Express.js, and MongoDB, achieving a 15% increase in API performance

TravelStream Insights

- Implemented a real-time streaming data engineering project using Kafka for data ingestion and Spark for distributed processing
- Orchestrated deployment of Dockerized Kafka and Spark clusters, integrated with Amazon S3 for scalable data storage, AWS Lambda, and Quicksight for dashboard creation, enhancing data visualization and analysis

Certifications

- AWS Certified Cloud Practitioner (CLF-C02)
- AWS Certified Solutions Architect - Associate (SAA-C03)
- AWS Certified Data Engineer - Associate (DEA-C01)