Onkar Patole

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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	

TECHNICAL SKILLS

- **Programming Languages:** Python, Java, Spark, Scala, C
- **Tools and Technology:** Docker, Kubernetes, Terraform, Git/Github, Kafka, 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

Work Experience

Cloud Site Reliability Engineer Intern   June 2024 – Present
Michigan Health Information Network (MiHIN)   *Michigan, USA*

- Working with **Development** and **DevOps** teams to deploy cloud solutions using **Terraform**, **Kubernetes**, **Docker** 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%

Software Engineer   Jan 2022 – August 2023
LTIMindtree   *Pune, India*

- Built and executed an **ETL** pipeline with a team of developers on **AWS** using **Lambda**, **Glue**, and **S3**, transforming and modeling large datasets, reducing processing time by 35%
- Led the design and execution of a 100+ terabyte **Oracle-to-MySQL** database migration using **AWS DMS**, improving query performance by 40% while ensuring zero data loss and minimal downtime
- Integrated unstructured historical on-premise data into **Redshift**, implemented data cleansing processes that enhanced query performance by 30% and reduced storage costs by 25%

Associate Consultant   Aug 2021 – Nov 2021
Bristlecone   *California, USA*

- 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

Software Engineer Intern   March 2021 – Aug 2021
Zenture IT Solutions   *Pune, India*

- Designed and developed secure, scalable netbanking applications using the **Django framework**, 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**

Corporate DevOps CI/CD Pipeline

- Built a **CI/CD** pipeline using **Jenkins**, integrating **SonarQube** for code quality, **Nexus** for artifact management, and **Docker** for containerization, automating deployment to Kubernetes clusters
- Secured **Kubernetes clusters** by integrating **Kube Audit**, ensuring 100% compliance and reducing vulnerabilities by 30%, with continuous monitoring using **Grafana** and **Prometheus** (Blackbox and Node Exporter)

Certifications

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