Onkar Dilip 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, Grafana ,Django, React.js, TypeScript, Node.js, Express.js, HTML, CSS
- 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, USA

Michigan Health Information Network (MiHIN)

- 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 **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 **Diango 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)