Onkar Dilip Patole

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EDUCATION

Binghamton University, State University of New York	Aug 2023 – May 2025
MS in Computer Science | GPA: 3.51/4	
Savitribai Phule Pune University	Aug 2017 – June 2021
Bachelor of Engineering in Electronics and Telecommunication | GPA: 8.56/10	

TECHNICAL SKILLS

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

CERTIFICATIONS

- AWS Certified Solutions Architect - Associate (SAA-C03)
- AWS Certified Data Engineer - Associate (DEA-C01)
- Certified Kubernetes Administrator (CKA)

WORK EXPERIENCE

Cloud DevOps Engineer — June 2024 – Present
Michigan Health Information Network (MiHIN) — *Michigan, USA*

- Collaborating with **Development** and **DevOps** teams to deploy cloud solutions with **Terraform**, **Kubernetes**, **Docker**, and **Serverless Framework**, reducing deployment times by 25%
- Optimizing cloud infrastructure with **Infrastructure-as-Code** (IaC) practices, managing Kubernetes clusters with **Helm** and **Kustomize** for container orchestration and scalability, and ensuring high availability and fault tolerance
- Developing **CloudFormation stacks**, automation scripts, and tools to manage cloud infrastructure, resulting in a significant reduction in deployment errors and improved security across **20+ cloud environments**

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, which **reduced data processing time by 35%**
- Led the design and execution of a **100+** terabyte **Oracle-to-MySQL** database migration using **AWS DMS**, significantly **improving query performance** 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**
- 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 net banking applications using the **Django framework**, achieving a **30% improvement in system stability** and a **25% reduction in server load** through performance optimization
- Implemented **REST APIs** for **microservices** using **Django REST Framework** (DRF)

PROJECTS

Industry-Specific-Layoff-Tracker, *link*

- Developed an automated data pipeline that scraped and processed **200,000+** records from Reddit and 4chan, leveraging **MongoDB**, Faktory workers, and **Flask APIs** for real-time analysis of layoffs, applied sentiment and toxicity analysis with **95% accuracy** using NLTK, and created visualizations with **Matplotlib** for actionable insights

Corporate DevOps CI/CD Pipeline, *link*

- Built a CI/CD pipeline using **Jenkins**, integrated **SonarQube** for code quality, **Nexus** for artifact management, and Docker for containerization; automated deployments to Kubernetes clusters, secured them with Kube Audit to ensure **100% compliance**, and enabled continuous monitoring with **Grafana** and **Prometheus (Blackbox and Node Exporter)**