

Onkar Dilip Patole

✉ opatole@binghamton.edu | ☎ (607)-296-8389 | in onkarpatole | 🌐 onkarpatole.com | 📱 OnkarPatole28

EDUCATION

Binghamton University, State University of New York

Aug 2023 – May 2025

MS in Computer Science | GPA: 3.52/4

Savitribai Phule Pune University

Aug 2017 – June 2021

Bachelor of Engineering in Electronics and Telecommunication | GPA: 8.56/10

TECHNICAL SKILLS

- **Scripting Languages:** Python, Java, Bash, JavaScript
- **DevOps/SRE:** Docker, Kubernetes, Terraform, Jenkins, JIRA, Ansible, Argo CD, GitLab, Git, Splunk, ELK, Datadog
- **Web Application Tools:** React.js, Node.js, Grafana, Prometheus, Microsoft Excel
- **Databases:** MySQL, PostgreSQL, MongoDB, DynamoDB
- **Cloud:** AWS - IAM, EC2, API Gateway, Lambda, Redshift, EKS, ECS, Fargate, VPC, S3, QuickSight, CloudFormation, Athena

CERTIFICATIONS

- Certified Kubernetes Administrator (CKA) 📜
- AWS Certified Solutions Architect - Associate (SAA-C03) 📜
- AWS Certified Cloud Practitioner (CLF-C02) 📜

WORK EXPERIENCE

Cloud DevOps Engineer, *Michigan Health Information Network (MiHIN) | Michigan, USA*

June 2024 – Present

- Collaborating with **DevOps** and **Development** teams to deploy over **20+ cloud solutions** for healthcare data using **Terraform, Kubernetes, Docker**, and the **Serverless Framework**
- **Containerizing** applications using **Docker**, storing images in ECR, and deploying them on **ECS** with **GitLab CI/CD** pipelines for automated, repeatable, and consistent deployments on **AWS**
- Optimizing cloud infrastructure with **Infrastructure-as-Code (IaC)** practices, managing Kubernetes clusters with **Helm** and **Argo CD** for container orchestration, and ensuring high availability and fault tolerance
- Writing **CloudFormation** scripts for **serverless architecture** and **Terraform** for **cloud infrastructure provisioning and management**, enhancing deployment efficiency by **25%**

Software Engineer, *LTIMindtree | Pune, India*

Jan 2022 – August 2023

- Implemented a **Jenkins-based CI/CD** pipeline for **JavaScript** applications, integrating a concurrent deployment feature that reduced deployment time from **24 minutes to 8 minutes**
- Developed a robust **API testing framework** for **35+ APIs** utilized by the DevOps platform using **Postman**, which helped identify and troubleshoot bugs and boosted application stability
- Augmented application functionality by integrating **AWS Secrets Manager** for secret management, enabling log retention with **AWS S3**, and enhancing monitoring and troubleshooting with **Splunk**
- Integrated **Argo CD Image Updater** to automatically manage container image updates in Kubernetes, eliminating the need for manual version increments in Helm charts

Associate Consultant, *Bristlecone | California, USA*

Aug 2021 – Nov 2021

- 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

PROJECTS

Industry-Specific-Layoff-Tracker, 📜

- Developed an automated data pipeline that scraped and processed **200,000+** records from Reddit and 4chan, leveraging **MongoDB**, **Factory 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, 📜

- Built a CI/CD pipeline using **Jenkins**, integrated **SonarQube** for code quality, **Nexus** for artifact management, and **Docker** for containerization; orchestrated 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)**