

# YASH BHATIA

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## Education

### Northeastern University

Master of Science in Information Systems

Sep 2022 – May 2024

GPA 3.72/4

## Technical Skills

**Languages:** Python, Java, Go, JavaScript, C, NodeJS, ReactJS, Linux Shell Scripting

**Database:** MySQL, MongoDB, Amazon DynamoDB, PostgreSQL, Oracle

**Cloud & IaC:** AWS (EC2, S3, DynamoDB, Lambda), GCP, Terraform, Ansible, Docker, Kubernetes, Jenkins, Prometheus

**Other:** REST API, Distributed Systems, Containerization & Orchestration, Testing, Documentation, Agile Delivery

## Experience

### Northeastern University

Graduate Teaching Assistant

Jan 2024 – Apr 2024

Boston, MA

- Managed lab workshops for 200+ students focused on Infrastructure as Code using **Terraform** and **GCP**.
- Facilitated hands-on sessions on GitHub Actions to implement CI/CD pipelines, streamlining deployment process.
- Led training on automating **Amazon Machine Images** using HashiCorp Packer for infrastructure provisioning.

### Accenture Solutions Pvt Ltd

Software Developer Associate

Feb 2021 – Jul 2022

Mumbai, MH

- Spearheaded paperless statement feature and migrated applications to AWS-hosted microservices using **Java Spring Boot**, enhancing customer experience and a 32% increase in daily transactions within the first quarter.
- Streamlined application deployment by creating and managing CI/CD pipelines with **Jenkins**, integrating **GitHub**, and automating **AWS** deployments, cutting manual work by 54%.
- Championed Test-Driven Development by creating over 50+ unit tests with **JUnit** and Mockito, reducing post-deployment bugs.
- Designed **Python** Scripts for fault detection and **Linux** scripts for automation processes, increasing efficiency by 63%.
- Embraced agile methodologies, boosting team productivity by 15% through streamlined development cycles.

### Trivia Softwares

Python Developer Intern

Jun 2020 – Jan 2021

Mumbai, MH

- Developed scalable RESTful APIs using **Python** and **Postgres**, achieving a 40% improvement in data retrieval speed.
- Collaborated with front-end team to integrate **ReactJS**, enhancing user interface and page load time by 15%.
- Utilized **Splunk** for API log analysis, significantly reducing production errors by 80%.

## Projects

### KubePilot | Go, Terraform, Docker, Kubernetes, Helm, Jenkins, Linux, Kafka

Apr 2024

- Organized high-availability distributed systems and 5+ microservices using **Kubernetes** and operators written in **Go**.
- Provisioned infrastructure using **Ansible** and **Terraform** for AWS resources, including Route 53 & EC2.
- Directed the automated deployment of **Docker** images via **Jenkins**, achieving a 40% reduction in deployment time.
- Established readiness and liveness probes for application health, and set up logging with **ElasticSearch**, **Kibana**.

### Learning Management System | NodeJS, AWS (EC2, S3, DynamoDB, Lambda), Pulumi, GCP

Jan 2024

- Accelerated CSV parsing with a **CSV-parser**, achieving high throughput, and strengthened security using **bcrypt**.
- Synchronized data models using **Sequelize**, and engineered secure REST **API** endpoints, handling 1000+ requests.
- Reduced EC2 provisioning time by **50%** with **Pulumi** IaC by utilizing Load Balancers for enhanced **AWS** scaling.
- Implemented Serverless computing with **Lambda** functions to track details in **DynamoDB**, and optimizing data storage by efficiently storing information in Google **Buckets**.

### Netflix - DevSecOps | TypeScript, AWS, Kubernetes, ArgoCD, Helm

Dec 2023

- Optimized Kubernetes deployments with **ArgoCD**, Helm and Docker, enhancing system reliability by 45%.
- Implemented a **Jenkins** based CI/CD pipeline, including code quality checks with **SonarQube** and Trivy, cutting deployment times by 40%.
- Engineered **Prometheus** and **Grafana** monitoring system, enabling real-time performance and health insights.

### Airline E-commerce | Java Spring Boot, MySql, AngularJS, Thymeleaf

Aug 2023

- Developed a web application using **Spring Boot**, Spring data JPA and MySQL where users can login and book a flight.
- Created an Integration layer RESTful API for flight check-in microservice to check in passengers with reservations.