**YASH BHATIA**

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# SUMMARY

A product driven software engineer with 2.5+ years of experience in backend development and system optimization. My expertise in distributed systems and advanced algorithms drives innovation and efficiency in enterprise solutions.

# EDUCATION

**Northeastern University,** Boston, MA, USA  **May 2024**

Master of Science, Information Systems **GPA 3.72/4.0**

**University of Mumbai,** Mumbai, MH, India **June 2020**

Bachelor of Engineering, Electronics and Telecommunications **GPA 8.06/10**

# SKILLS

**Languages**: Python, Java, Go, C, JavaScript, React JS, Spring MVC, Linux Shell Scripting

**Database**: MySQL, MongoDB, PostgreSQL, Oracle, PL/SQL, Hadoop

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

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

# WORK EXPERIENCE

**Northeastern University** *Teaching Assistant – Cloud Computing* **Jan 2024 - May 2024**

* Orchestrated 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.
* Conducted sessions on automating machine images using **HashiCorp** Packer for infrastructure provisioning.

**Accenture Solutions Pvt Ltd** *Software Developer Associate* **Feb 2021 - Jul 2022**

* Implemented paperless transaction features and migrated applications to **AWS**-hosted microservices using **Java EE** and **Spring Boot**, enhancing customer experience and a 32% increase in daily transactions within the first quarter.
* Optimized software architecture using **design patterns**, enhancing code optimization and sustainability by 20%.
* Resolved critical issues across five complex codebases, effectively managing frequent task switches to deliver automation and data-driven insights that saved over 3,600 hours annually.
* Leveraged expertise in **Go**, **ReactJS** and **Typescript** to enhance UI/UX and functionality of application by 36%.
* Crafted tests using **JUnit** and **Mockito**, achieving 90% code coverage, enhancing software reliability and security.
* Configured CI/CD pipelines using **Jenkins** and published artifacts to **JFrog** Artifactory, reducing downtime by 98%.
* Adopted agile methodologies (**Jira**), boosting team productivity by 15% through streamlined development cycles.

**Trivia Softwares** *Python Developer Intern* **Jun 2020 - Jan 2021**

* Designed scalable RESTful APIs using **Django** and **Postgres**, achieving a 30% improvement in data retrieval speed.
* Worked with front-end team to integrate **ReactJS**, enhancing responsive user interface and page load time by 15%.
* Leveraged **Splunk** for API log analysis, significantly reducing production errors by 80%.
* Collaborated with cross-functional teams for software requirements, ensuring alignment with business objectives.
* Maintained technical **documentation** for software applications, resulting in a 25% reduction in support requests.

# PROJECTS

**KubePilot |** Go, Terraform, Docker, Jenkins, Helm, Linux, Kafka **| (**[**Demo**](https://github.com/orgs/AdvancedCloud/repositories)**)**

* Orchestrated high-availability distributed systems and microservices using **Kubernetes**, employing event-driven architecture, and enabling monolithic-microservice integration in hybrid cloud environment.

**Netflix Clone – DevSecOps |** Typescript, AWS, Docker, ArgoCD, Helm, Prometheus **| (**[**Demo**](https://github.com/bhatiayash/DevSecOps-Project)**)**

* Optimized **Kubernetes** deployment of Netflix clone leveraging **GitOps**, configured **CI/CD** pipeline integrating security tools for code quality checks, and real-time performance monitoring system.

**Assignment Manager |** NodeJS, AWS (EC2, S3, DynamoDB, Lambda), Pulumi, GCP **| (**[**Demo**](https://github.com/orgs/csye6225-yash/repositories)**)**

* Engineered high-concurrency REST APIs and streamlined cloud infrastructure provisioning via **IaC** and **load balancing**, implemented serverless computing for email services, optimized cloud storage for user details.

**Airline E-Commerce |** Java, Spring Boot, Hibernate, MySQL, AngularJS, Thymeleaf **| (**[**Demo**](https://github.com/bhatiayash/Airline-E-Commerce)**)**

* Developed secure flight booking web app with user authentication, **RESTful API** for passenger check-in service, responsive front-end templates for optimal user experience.