PRITHVI HARISH MALHOTRA

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TECHNICAL SKILLS

- **Programming Languages:** Golang, Java, C++, Python, JavaScript
- **Tools** : AWS, Terraform, Prometheus, Git
- **DevOps** : Kubernetes, Jenkins, Docker, GitHub Actions, ArgoCD
- **Database** : MySQL, MongoDB, Redis, Elasticsearch, PostgreSQL
- **API** : REST, GraphQL, gRPC, SOAP
- **Web Technologies** : React.js, SpringBoot, JUnit, HTML, CSS

PROFESSIONAL EXPERIENCE

Software Engineer | LTIMindtree, Pune, India   **July 2021 - July 2023**
Technologies - Java, Spring Boot, Seeburger, Jenkins, Github
- Engineered a custom real-time parser in **Java** to efficiently handle large volumes of transactional data, optimizing the Electronic Data Interchange process in an Agile environment.
- Reduced data processing errors by 6% through the development and deployment of file-level validations with overlays across diverse file formats.
- Implemented and maintained **CI/CD pipelines** using **GitHub** and **Jenkins** to automate deployment.

Software Engineering Intern | Space Up Technologies LLP, Mumbai, India   **March 2020 - July 2020**
Technologies - Golang, Kubernetes, Docker, Github Actions, ArgoCD, Prometheus
- Enhanced system performance by 18% by integrating the existing data layer of SpaceCloud with **Elasticsearch**, replacing traditional databases for more efficient full-text search queries.
- Optimized **Kubernetes** deployment by adding a scale-down-to-zero feature with a 3-second cold start and integrated **Prometheus** for real-time metrics monitoring.
- Improved feature integration, deployment, and testing efficiency by designing a CI/CD pipeline with automated deployment, testing, PR monitoring, and environment cleanup using GitOps principles and **ArgoCD**.

Open Source Contributor | Ray (Anyscale), CO, US   **June 2024 - Aug 2024**
Technologies - C++, Python, Pub/Sub
- Enhanced Subscriber by adding support for multiple callbacks when subscribing to the same publisher_address and key_id, improving callback invocation accuracy.
- Fixed a critical issue where S3 URLs with spaces in job submissions caused tasks to hang in the Pending state by expanding the disallowed character set in URL parsing logic, enhancing the robustness of the system.

ACADEMIC PROJECTS

Serverless Insights Dashboard | AWS, Grafana, Terraform, CloudFormation, API Gateway, Lambda, DynamoDB
- Designed a solution to collect, process, and visualize real-time data, enabling dynamic monitoring and analytics through interactive dashboards.

Automatic Music Separation Service | Kubernetes, Terraform, Python, Redis, Min.io, AWS
- Designed and deployed a **Kubernetes** cluster using **Terraform**, with containerized microservices providing a REST API for audio track separation, Redis for task management, and Min.io for cloud-based object storage.

Distributed Online Marketplace | Golang, MySQL, gRPC, REST, SOAP
- Developed a scalable marketplace backend with microservices and fault-tolerant data replication using the **Raft consensus algorithm** and self-designed **rotating sequencer protocols**.

CERTIFICATIONS

- AWS Certified Developer - Associate.

EDUCATION

University of Colorado Boulder, US   May 2025
Master of Science in Computer Science   **GPA - 3.8/4**
Relevant courses: Distributed Systems, Network Systems, Design and Analysis Of Algorithms
Veermata Jijabai Technological Institute, Mumbai, India   May 2021
Bachelor of Technology in Electronics   **GPA - 8.7/10**
Relevant courses: Computer Programming, Database Management Systems, Computer Architecture.