

# AMODH B H

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## TECHNICAL SKILLS

- **Programming:** HTML5, CSS, JavaScript, React JS, Python, SQL, Spring-Boot, Node.js, Angular.
- **Developer Tools/DevOps:** Git, GitHub, Docker, Jenkins, MS Excel, MS Office Suit.
- **Cloud Computing:** Amazon Web Services (AWS), Terraform, Shell Scripting, Kubernetes, Jenkins, Docker, Ansible, Prometheus.

## EXPERIENCE

### Software Engineer at Fretboard Interactive Systems

| 07/2024 – Present

**Technology Stack:** Angular, Spring-Boot and MariaDB.

- Collaborating in a team of 2 to develop a centralized testing application using **Angular**, **Spring Boot**, and **MariaDB**, aimed at improving application maintenance and testing processes.
- Leading frontend development with **Angular**, while contributing to backend development by creating critical **APIs** and services in **Spring Boot** to ensure smooth integration between frontend and backend.

### Dog Breed Classification Project using AWS Rekognition - Freelance

| 04/2024 - 04/2024

**Technology Stack:** AWS, React and Docker.

- Designed and developed a **dog breed classification** application using **AWS Rekognition**, resulting in **95% accuracy** in breed identification, benefiting end users with precise and fast image classification.
- Created an intuitive user interface with **React**, improving user engagement by **25%** due to a simplified, user-friendly experience.

## PROJECTS

### Java Application CI/CD Pipeline Implementation

| 10/2024-10/2024

**Technology Stack:** Java, Jenkins, Docker, SonarQube, Kubernetes and AWS.

- **Built an end-to-end CI/CD pipeline** with Jenkins, automating code retrieval from Git, running builds using Maven, and deploying on **AWS EC2**.
- Improved code quality through **SonarQube integration**, identifying and addressing **80%** of critical bugs before production.
- **Containerized application deployments using Docker** and managed orchestration with Kubernetes, leveraging **Kubernetes pods** for scalable and efficient delivery.
- **Implemented Argo CD for continuous delivery**, utilizing a manifest repository for version-controlled deployment configurations, promoting **Infrastructure as Code (IaC)** and streamlined automated deployments.

### Watermarkly.me: A Custom Watermarking Web Application [🔗]

| 09/2024 - 09/2024

**Technology Stack:** Next.js, TailwindCSS, Firebase and Cloudflare.

- Launched a cutting-edge web application using **Next.js** that empowered users to easily **apply custom watermarks** to images, boosting **monthly active user retention by 15%** through enhanced usability and functionality.
- **Integrated Firebase authentication for secure login**, allowing users to sign in via Google to access the Batch Watermarking feature, supporting up to 10 images at a time for bulk processing.
- **Optimized traffic handling with Cloudflare**, processing over **2.93k requests and 615 unique visitors in the last 30 days**, ensuring high performance with efficient cache management and real-time watermark generation.
- **Enhanced user engagement with a simple, one-click solution** for watermarking images, reaching a peak of **71 unique daily visitors**, and providing fast, hassle-free watermarking options for both single and batch uploads.

### AWS EC2 Auto-Healing and Kubernetes-Based CI/CD System

| 08/2024 - 08/2024

**Technology Stack:** AWS, Terraform, Docker, Jenkins, Shell Scripting.

- **Provisioned AWS infrastructure using Terraform**, deploying EC2 instances, Auto Scaling Groups, and CloudWatch alarms to automatically replace unhealthy EC2 instances, ensuring high availability.

- **Built a Jenkins CI/CD pipeline** for automating Docker image builds and deploying the images to a Kubernetes cluster, ensuring continuous integration and delivery with zero downtime.
- **Leveraged Kubernetes' native auto-healing** and scaling capabilities, combined with shell scripts for additional custom monitoring of non-Kubernetes resources, to ensure the system is resilient and fully automated.

## EDUCATION

**PES University** | *Bachelor of Technology in Mechanical Engineering*

*RR Nagar, Bengaluru*

*Cumulative GPA – 8.06/10*

**Relevant coursework:** Industrial IOT & Robotics, Drone Dynamics, Control Engineering, Data Analysis, Autonomous Vehicles

**Sri Bhagavan Mahaveer Jain College** | *PU Course in Electronics and Communication*

*VV Puram, Bengaluru*

*Percentage - 88.6%*