SAI SARAN K S M S

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PROFILE SUMMARY

Software engineer with 2.6 years of hands-on experience and 5+ years of coding expertise. Skilled in developing innovative solutions and delivering impactful projects, with a strong focus on scalable architecture and real-world impact.

SKILLS

Languages: C++, Java, HTML/CSS, JavaScript/TypeScript, R, MySQL

Cloud Services: AWS (S3, Lambda, API Gateway, DynamoDB, Cognito, SNS), Microsoft Azure, Google Cloud Platform

Web Services and Databases: SQL Server, Google BigQuery, PostgreSQL, MongoDB

Frameworks & Tools: React, GraphQL, REST APIs, Spring Boot, Microservices, Docker, Kubernetes

Software Testing: JUnit, SonarQube, PIT (Mutation Testing), Manual & Automated Testing in Java

Other Tools: Git/GitHub, Jira, AWS SDK (Boto3), Amplify, CloudWatch, IAM Policies

PROJECTS

BirdTag: Serverless Media Storage System
AWS (S3, Lambda, API Gateway, DynamoDB, Cognito, SNS), Python, JavaScript, OpenCV | GitHub | Website
- Built a serverless AWS media system for Monash Birdy Buddies to store, auto-tag, and search bird-related media files.
- Used Lambda to generate thumbnails and classify species using pretrained ML models.
- Integrated Cognito for user auth and DynamoDB for metadata storage and tag queries.
- Implemented RESTful APIs to support tag-based search, file management, and notification via SNS.

CloudPose: Containerized Pose Detection Backend with Kubernetes
FastAPI, Docker, Kubernetes, Oracle Cloud (OCI), Podman | GitHub
- Developed a FastAPI-based backend for pose detection, containerized using Docker and deployed to a Kubernetes cluster on Oracle Cloud Infrastructure (OCI).
- Configured Kubernetes `Deployment`, `Service`, and `Ingress` resources to orchestrate and expose the application publicly.
- Pushed Docker images to Docker Hub and pulled them using `kubectl` in the cluster for scalable deployment.
- Exposed public API on port 8000 with OCI VCN security rules and tested remote accessibility using cURL and browser.

Health Charity Application
Firebase, Firestore, Google Calendar API, Google Maps API | GitHub
- Developed a web app to facilitate food donation for elderly populations, enhancing community support.
- Used Firebase for user auth and Firestore for efficient data management.
- Integrated Calendar and Maps APIs to improve usability and location interaction.
- Built wireframes and low-fi prototypes with accessibility in mind.

EXPERIENCE

Infor, Hyderabad, India   04/2022 – 07/2024
Associate Software Engineer – EPM Team
- Automated deployment of financial and supply chain reporting applications on Infor CloudSuite using **GitLab CI/CD**, **YAML**, and **Docker** on **Linux-based environments**.
- Developed **Python** scripts to generate and archive report snapshots in **AWS S3**, improving traceability and regulatory compliance.
- Managed cloud infrastructure using **AWS EC2 Auto Scaling Groups**, **Launch Templates**, **ECR**, and **Secrets Manager** for secure and scalable deployments.
- Configured monitoring and alerting via **AWS CloudWatch** and **SNS** to ensure high availability and operational visibility.
- Integrated reporting solutions with **Infor Document Management (IDM)** and enforced role-based access through cloud role management.
- Collaborated in Agile sprints and DevOps pipelines to coordinate releases with platform and operations teams, reducing cycle time and delivery risk.

EDUCATION

Monash University, Melbourne   06/2024 – Present
Master of Information Technology

Jawaharlal Nehru Technological University   08/2018 – 06/2022
B.Tech. Computer Science and Engineering