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

Programming: Kotlin, Java, Python, C++, JavaScript/TypeScript, SQL, R

Mobile (Android): Jetpack Compose, Android SDK, Android Studio, Room, Firebase (Auth/Firestore), MVVM, Gradle

Backend & Web: Spring Boot, FastAPI, React, GraphQL, REST APIs, Microservices

Cloud & DevOps: AWS (S3, Lambda, API Gateway, DynamoDB, Cognito, SNS, CloudWatch, IAM), Azure, GCP, Docker, Kubernetes, GitLab CI/CD

Data & Storage: PostgreSQL, MySQL, SQL Server, Google BigQuery, MongoDB, DynamoDB, Firebase

Testing & Quality: JUnit, Espresso, Mockito, SonarQube, PIT (Mutation Testing)

Tools: Git/GitHub, Postman, Jira, AWS SDK (Boto3), Amplify

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.

Android Application (FIT5046 Assignment 2)
Kotlin, Jetpack Compose, Android Studio, Room/Firebase | GitHub
- Built a modern Android app for the Android Application Development unit using Jetpack Compose and MVVM architecture.
- Implemented core flows (auth, form input, lists/detail views) with state management, validation, and navigation.
- Added data persistence with Room and optional cloud sync via Firebase; structured repository layer for clean separation.
- Wrote setup docs and tests; optimized UI performance and accessibility for varied screen sizes.

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