SANDEEP KUNUSOTH

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Skills

- Java | Python | JavaScript | TypeScript | Swift | DynamoDB | SQL | Node | Express | React | Redux | jQuery | NoSQL | .NET | Angular | Git
- AWS | Cloud Computing | CI/CD | Karate | Cypress | Cucumber | Potractor | Unit Testing | Automation | Prometheus | Kibana | Docker
- Microservices | Distributed Systems | Frontend | Backend | Full-Stack | OAUTH2.0 | OOP | Kubernetes | HLD

Experience

Software Engineer 2   **Oracle**   *Hyderabad, India*   **03/2021 - 08/2022**

- Worked in the Hospitality domain with Oracle and Developing the next gen ARI (Availability Rate Inventory) search engine.
- Optimized Database interactions for the ARI engine, resulting in an 11% enhancement of user experience.
- Designed and implemented microservices and microfrontends for Property Management System using **SpringBoot, Oracle DB, OJET, Kubernetes** that serves content across large number of different online travel agencies like Expedia, Booking.com, Travelocity etc.
- Led the development of several products E2E, from identifying system requirements and partner dependencies to workload balancing, software implementation, engineering, testing, and configuring metrics, alarms, monitors, and dashboards.
- Implemented E2E Test Driven Development using **Karate** in Backend and **Cypress** in the Frontend which reduced testing time by 30%.

Build Software Engineer   **KPIT**   *Pune, India*   **08/2020 - 02/2021**

- Asset Management Platform - Developed a microservice to roll out updates to a fleet of vehicles and also to manage the life cycle of campaigns using **Java, PostgresSql, Spring JDBC, JPA, Angular**. Covered Integration Tests using Spring and E2E using Cucumber.
- BMW client POC - Worked on IOS Frontend and with AWS Cloud as the backend. Developed Rest API's in Python for managing the vehicle content posted by the Vehicle Head Unit. Designed an iOS App for displaying paired vehicle content, incorporating user payment details and integrating content actions via Apple Music, Spotify, and Ticket Master SDKs.

Software Engineer   **KPIT**   *Pune, India*   **07/2018 - 07/2020**

- Designed an Analytics Platform to gather datasets for processing using Angular, facilitating model training and result visualization stored in DynamoDB. Implemented Docker Containerization for automated model generation, cutting costs by 80% via spot AWS EC2 instances. Developed Python Rest APIs via the serverless Framework and utilized AWS services including **Batch, ECS, IAM, S3, Cognito, and ECR**.
- Worked on development of a Telematics Platform for European markets, utilizing Serverless Architecture on AWS Cloud, involving Backend development with Java-based Rest APIs (AWS API Gateway, Lambda, MySQL), and Frontend work using Angular (Typescript, Cognito SDK) with extensive testing (JUnit, Jasmine, Protractor).
- Contributed as an iOS Developer for Maximus Pro App, integrating Low Energy Bluetooth for hardware communication, implementing Google Maps APIs for navigation, and enhancing security via OAuth authentication. Also involved in debugging Java backend REST microservices that offer statistics using collected GPS and bike data.

Application Developer, Intern   **Timken**   *Banglore, India*   **06/2017 - 08/2017**

- Roll Shop Management App: Created a Windows application using Microsoft Visual Studio **.NET (C#, Visual Basic)** to streamline roll shop operations, incorporating role-based access, and enabled multi-site data synchronization via SQL Server and local SQLite databases.

Developer, Intern   **ECIL**   *Hyderabad, India*   **06/2016 - 07/2016**

- Developed a real-time vehicle tracking system using GPS and GSM technologies, including the design and assembly of a circuit board with integrated LCD display and regulated power supply; employed an 8051 microcontroller programmed in C via Keil-μVision and a flash adapter for precise vehicle location monitoring.

Education

MS in Computer Science 3.85/4	**University at Buffalo**	*Buffalo, NY, USA*	**08/2022 - 01/2024**
Bachelors in Electrical Engineering	**IIT MADRAS**	*Chennai, India*	**06/2014 - 05/2018**

Projects

- Renewable Energy Trading using Blockchain & NFTs (Solidity, React.js, Smart Contract).   **(01/2023)**
- Developed IR chatbot can perform chitchat and conversations from selected topics. (Solr, Angular, Flask, GCP, BERT, Reddit) **(07/2022)**

Certifications

- Oracle Cloud Infrastructure: Certified Architect Professional, DevOps Certified Professional, ML using Autonomous Database.
- Java SE 11 Developer, Java SE 8 Programmer, Java EE 7 Application Developer, GoldenGate 12c.