Sandeep Kunusoth

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EDUCATION

Aug 2022- Dec 2023	Masters in Computer Science, STATE UNIVERSITY OF NEW YORK AT BUFFALO	GPA: 3.83/4
May 2014 - 2018	Bachelor of Technology in Electrical Engineering, IIT MADRAS, CHENNAI, INDIA	

EXPERIENCE

ORACLE INDIA PRIVATE LIMITED | HYDERABAD, INDIA

Mar 2021 -
Aug 2022

***Software Development Engineer 2* (Full Stack Web Developer)**
- Working as Full Stack Developer within the Oracle Hospitality Team, designing and developing micro services for hotel management using the Oracle Database.
  Frameworks and tools: Java, React with OJET, Kubernetes, Oracle database, Liquibase, Golden Gate for database.
- Deploying and managing the Kubernetes and developing the front end using micro-frontend Architecture in React using Oracle JET Technology. Followed Test Driven Development using Karate in Backend and Cypress in the Frontend.
  Monitoring tools used: Prometheus, Kibana.

KPIT TECHNOLOGIES | PUNE, INDIA

Nov 2020 -
Feb 2021

***Build Software Engineer* (Backend Developer) At Fleet Management Team, KPIT**
- Asset Management Platform- Developed a microservice to roll out updates to a fleet of vehicles and also to manage the life cycle of campaigns- RBAC via OAUTH 2.0 using keycloak.
- Created microservices using Jhipster framework written in Java using Postgresql Database. Worked on spring JDBC, JPA and wrote native queries for returning the response directly through the Database.
- Covered Integration Tests using Spring Framework and E2E using cucumber Framework.

Sep 2020 -
Oct 2020

***Build Software Engineer* (Mobile Developer, Cloud Engineer) At Connected Travel Team, KPIT**
- *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.
- Developed an IOS App that would display content related to the current paired vehicle, with appropriate payment information related to users along with integrated content actions with SDKs like Apple Music, Spotify, Ticket Master.

Jul 2020 -
Aug 2020

***Build Software Engineer* (Mobile Developer, Cloud Engineer) At Porsche Analytics Team, KPIT**
- Developed the Analytics Platform; this collected datasets used for processing through Frontend which is developed in Angular. The collected data is then used for model training and generating result visualization, which will be stored in DynamoDb. The generated model is then used to predict new data.
- Did the automation of generating training models using Docker Containerization. This resulted in use of spot EC2 instances reflected with 70 - 80% reduced costs. Created Rest API's in Python using the serverless Framework. Worked with AWS services like AWS Batch, ECS, IAM, S3, Cognito, ECR.

Aug 2019 -
Jun 2020

***Software Engineer* (Web Developer, Cloud Engineer) At Pioneer Team, KPIT**
- Worked as Backend Developer using AWS technologies. Created Rest API's using AWS API Gateway and Lambda functions written in Java using MySql Database. Created Python and Bash scripts for deleting unnecessary AWS resources that are generated from Automated tests.
- Covered Unit test with JUnit Framework. Worked with AWS services like SQS, SNS, S3, Cloudformation, Cloud Watch, Cognito.
- Worked as Frontend developer in Angular Framework using Typescript. AWS was used as Cognito SDK; as backend for authentication in Portals. Created Angular Reusable Libraries across different Portals.
- Covered Unit and Automation testing with Jasmine and Protractor Framework.

Jul 2018 - Jul 2019	***Software Engineer Trainee* (IOS App Developer, Backend Developer) At Maximus Pro Team, KPIT**

- Worked as IOS Developer of Maximus Pro App and communicated the navigation information to Hardware using Low Energy Bluetooth connection.
- Used Google Maps Apis for navigation and added Secure Authentication Flow OAuth to App. was also involved in bug fixing of backend REST micro services which are written in Java. (This service also provides useful statistics using the data collected from android/ios app(gps data, bike data) via sockets.)

TIMKEN ENGINEERING PRIVATE LIMITED | BANGLORE, INDIA

Jun 2017 - Aug 2017	***Intern* (Windows Application Developer) At Roll Shop Management Team**

- Developed the windows application using Microsoft Visual Studio .Net in C#,Visual Basic for helping employees to track and manage roll shop operations by role based restrictions.
- Helped in Data synchronization across multiple remote sites through the SQL Server and local database using SQLite.

ECIL | HYDERABAD, INDIA

Jun 2016 - Jul 2016	***Intern* (Embedded Developer)**

- Tracking Real Time Vehicle using GPS and GSM,with a group of 3, we designed a circuit board by soldering the LCD-Display, Regulated Power Supply on the board.
- The circuit involved the 8051 as a microcontroller, which was coded in C language for tracking the Vehicle Location. Tools used are Keil-µVision, flash adapter for 8051.

PROJECTS

Aug 2022 - Dec 2022	***Information Retrieval Chat bot***

- Built data crawler which crawls Reddit data and indexes the data with the help of Solr Framework. Trained glove model on our crawled data to find word embeddings.
- Used TF-IDF similarity scores, word embeddings in query expansion to fetch best possible results and have performed reranking of top results using BERT.

SKILLS

- Programming languages: C, MATLAB, VB.NET, Python, JAVA, Swift, Bash.
- Web Technologies: HTML, CSS, Java script, Angular, React.
- Softwares: Lyx, Autocad, Adobe after effects, Microsoft Visual Studio, MSExcel, Xcode.
- SDKs: AWS, Apple Music, Spotify, Oauth.
- Database Languages: MS SQL, SQLite, Core Data, DynamoDb.
- Cloud: AWS, Oracle Cloud Services.

CERTIFICATIONS

- 2022 Oracle Cloud Infrastructure Certified Architect Professional
- 2022 Oracle Cloud Infrastructure DevOps Certified Professional
- 2022 Oracle Cloud Infrastructure Data Science Certified Professional
- 2022 Oracle Certified Professional: Java SE 11 Developer
- 2022 Oracle Certified Professional, Java SE 8 Programmer
- 2022 Oracle Certified Professional, Java EE 7 Application Developer
- 2022 Oracle GoldenGate 12c Certified Implementation Specialist
- 2021 Oracle Machine Learning using Autonomous Database Certified Specialist

ACTIVITIES

- Coordinator - **Envisage 4.0, Shastra 2016**, Techno Cultural Show - Developed a video using adobe after effects software, which is used in projection mapping on the stage screen to synchronize with the dancers. The aim of this project was to achieve the perfect balance of technology and entertainment.
- Coordinator - **Saarang 2017**, Creation and maintenance of activities for Saarang, the cultural fest of IIT MADRAS and the cultural club committee of IIT Madras.