ANJALI BACHANI

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EXPERIENCE

Amazon Web Services, Inc - Health AI | Software Dev Engineer | Santa Clara, CA — February 2024 to Present

Event bridge

- Designed and delivered key features for AWS Health Imaging, engineered a scalable real-time event emission layer on their imaging and dicom platform, reducing incidence response time by 25% through automated alerts and downstream workflow triggers.
- Spearheaded security and compliance initiatives, ensuring 100% regulatory alignment with IPv6 and FIPS and Fedramp High. Worked closely with teams to navigate complex requirements and enhance service security.

Metering

- Served as the Tech Lead for the Metering Service, architecting a robust billing infrastructure that improved billing precision, prevented revenue leakage and reduced time taken to generate reports by 80%.
- Partnered with product, security, and compliance teams to develop scalable and cost-efficient healthcare imaging solutions, accelerating compliance approval cycles by 60% and optimizing cloud resource utilization.

Amazon Web Services, Inc - Aurora MySQL | Software Dev Engineer | Palo Alto, CA — October 2021 to February 2024

JIRA Service

- Led an automated Jira service to expedite the management of failed tests by automatically generating Jira tickets for easy tracking and resolution, reducing the time required to identify, deduplicate and resolve issues by almost 50%.
- Refactored the underlying testing infrastructure to be modular and metadata-rich, enabling seamless integration with the JIRA service and setting the stage for scalable diagnostics and faster root cause analysis. Improved test result clarity by 30%.

Resource pooling and Kermit

- Implemented Resource Pooling initiative to pre-provision test clusters, reducing pipeline turnaround time by 40% and improving release velocity.
- Collaborated on the development of the Kermit feature in Aurora, enabling customers to leverage database sharding for increased performance and scalability powering efficient processing of petabyte-scale datasets and millions of transactions for customers.

Axis India Machine Learning | Software Development Engineer Intern | Jaipur, India — December 2018 to August 2019

- Transformed the conventional JavaScript HTML+CSS website of the company into a single-page React App, increasing website footfall by 10 times.
- Performed SQL data modeling and built REST APIs using NodeJS to expedite HTTP requests with CRUD operations on data stored in MySQL.
- Revamped the unit test using Mock, resulting in a 17% reduction in application bug reports and significantly improving on-time delivery metrics.

EDUCATION

University at Buffalo, State University of New York — Buffalo, NY
Masters in Computer Science

Vellore Institute of Technology — Vellore, India
Masters in Computer Application

JECRC University — Jaipur, India
Bachelor of Computer Application

SKILLS

Expertise in: Data structures, Algorithms, Cloud Computing, Distributed Systems, Object-oriented analysis and design, Relational Databases
Programming: Java, Python, Go, JavaScript, TypeScript, React.js, Node.js, Angular.js, CSS, MATLAB, C/C++, HTML, C#, Go, SQL, NoSQL
Cloud & Infrastructure: AWS EC2, CloudWatch, AWS Lambda, AWS SQS, Distributed Job Scheduler, Docker, Apache Solr, Kafka, Kinesis, API Gateway
Databases: MySQL, DynamoDB, Aurora, GCP, AWS S3, Postgres
DevOps & Tools: GitHub, REST APIs, Jupyter Notebook, AWS CloudFormation, Jira, Pytorch, Tensorflow

PROJECT EXPERIENCE

Database for Medical Records (JavaScript, React, Node, MySQL, CSS, HTML) — August 2020 to December 2020

- Created a real-time web-based application that optimized the recording of medical samples collected at the University's Medical Lab.
- Constructed a database for samples, shipments and facilitated lookups to enhance performance and customer experience.
- Standardized shipment tracking by providing summarized information of the sample reducing overhead by 30%.

Open IR - Information Retrieval System (Python, JavaScript, AWS, Solr, Lucene, Flask, NLP, LDA, PyTorch, TensorFlow) — September 2020 to November 2020

- Built an ML driven IR system analyzing 3 million tweets across 7 languages and 25 countries. Applied creative solutions to process real-time data effectively.
- Incorporated vector embeddings using Word2Vec ML model and used K-Means and LDA to generate clusters to group and classify public sentiments by region and portrayed using different Data Visualization methods like Data Maps, Timelines, and Graphs.

ACHIEVEMENTS

Presented a research paper titled "Drowsiness Detection using Facial Expression" — November 2019
International Conference on Science, Engineering and Technology, Vellore Institute of Technology (VIT)

Graduated 2nd in class, earning a prestigious Silver Medal for outstanding academic excellence in Bachelor 's degree — May 2017