

ANJALI BACHANI

anjalibachani1@gmail.com | anjalibachani.github.io | +1 7165333462 | San Jose, California |
linkedin.com/anjalibachani | github.com/anjalibachani

EXPERIENCE

Amazon Web Services, Inc

Software Dev Engineer – Health AI

Santa Clara, California
February 2024 to Present

- Designed and delivered key features for AWS Health Imaging, improving real-time updates on their imaging data and reducing operational delays by 25% through effective planning.
- Spearheaded security and compliance initiatives, ensuring 100% regulatory alignment with IPv6 and FIPS. Worked closely with teams to navigate complex requirements and enhance service security.
- 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 40%.
- Partnered with product, security, and compliance teams to develop scalable and cost-efficient healthcare imaging solutions, accelerating compliance approval cycles by 50% and optimizing cloud resource utilization.

Amazon Web Services, Inc

Software Dev Engineer – Aurora MySQL

Palo Alto, California
October 2021 to February 2024

- Implemented an automated service called Jira Service to expedite the management of failed tests by automatically generating Jira tickets for easy tracking and resolution, resulting in a 50% reduction in the time required to identify and resolve issues.
- Developed and implemented a highly scalable and extensible testing infrastructure platform for the Aurora MySQL service, which amplified testing efficiency by 30% and significantly improved the quality of service.
- Championed the Resource Pooling project to streamline release velocity by pre-creating 50 clusters for pipeline tests, leading to a 40% decrease in overall testing turnaround time.
- Collaborated on the development of the Kermit feature in Aurora, a managed service that enabled customers to leverage database sharding for increased performance and scalability, facilitating efficient processing of millions of transactions and petabytes of data in a single database.

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, reducing website overhead by 20%.
- 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 Jest and Mock, resulting in a 17% reduction in application bug reports and doubling the Timely Project Delivery scores.

EDUCATION

University at Buffalo, State University of New York

Masters in Computer Science

Buffalo, NY

Vellore Institute of Technology

Masters in Computer Application

Vellore, India

JECRC University

Bachelor of Computer Application

Jaipur, India

SKILLS

Expertise in: Data structures, Algorithms, Cloud Computing, Distributed Systems, Object-oriented analysis and design, Relational Databases

Programming: Java, Python, JavaScript, TypeScript, React.js, Node.js, Angular.js, CSS, MATLAB, C/C++, HTML, C#

Cloud & Infrastructure: AWS EC2, CloudWatch, SQS, DJS, Docker, Apache Lucene, Apache Solr

Databases: MySQL, DynamoDB, Aurora, GCP, AWS S3

DevOps & Tools: GitHub, REST APIs, Jupyter Notebook, AWS CloudFormation, Jira

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, Angular, AWS, Solr, Lucene, CSS, D3, HTML)

September 2020 to November 2020

- Built an IR system analyzing 3 million tweets across 7 languages and 25 countries. Applied creative solutions to process real-time data effectively.
- Incorporated Location Analysis and Sentiment Analysis to better understand the public response in each country and portrayed using different Data Visualization methods like Data Maps, Timelines, and Graphs.
- Performed Latent Dirichlet Allocation for Topic modeling and applied a Faceted search on the indexed tweets by creating backend web services.

ACHIEVEMENTS

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

November 2019

Graduated with 2nd rank in my batch, earning a prestigious Silver Medal for outstanding academic excellence in my Bachelor's degree

May 2017