

SaiAnand Mohan

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EDUCATION

University at Buffalo | Buffalo, New York | Expected February 2021

Master of Science, Computer Science - **GPA 3.8/4**

Coursework: Analysis of Algorithms, Object Oriented Design, Introduction to Machine Learning, Information Retrieval, Distributed Systems, Data Model Query Language, BlockChain Application Development.

Anna University | Chennai, India | May 2017

Bachelor Of Engineering, Computer Science - **GPA 7.19/10**

SKILLS

- Languages: C, C++, Java, Python, Solidity.
- Web Technologies: HTML, CSS, JavaScript, Ajax, XML, REST API.
- Framework : ReactJS, React native, Python-Flask, JSP, JSF, Google Guice, Mockito.
- Database Systems & Query language: QLDB, MySQL, Microsoft SQL server, XQuery.
- Cloud technologies(AWS) : EC2, RDS, S3, IAM, ODCR.

WORK EXPERIENCE

Software Development Engineer Intern | **Amazon Web Services** | Seattle, United States | May 2020 - August 2020

- Built a service and REST APIs which provides a consolidated view of current and historical capacity reservations including all lifecycle events without affecting the service efficiency, database throughput.
- Implemented unit test with >90% coverage using Junit and Mockito to deliver high quality functional features.
- Leveraged Agile methodologies to move development cycle rapidly from initial design phase to corporate quality coding, testing.
- Increased the productivity of developers to solve the issues in minutes which took hours and days before.

Skills Acquired: Java, Google Guice, JSP, SpringBoot, QLDB, Mockito, EC2 ODCR, S3, Yaml, Git.

Software Engineer | **Newgen Software Technologies** | Chennai, India | August 2017 - July 2019

- Involved in integrating with the core banking system (using REST API) for customer details and account creation.
- Generating documents with predefined bank specific templates.
- Performed root cause analysis and suggested enhancements to Project manager & team mates.
- Developed stored procedures, SQL jobs for report Generation.
- Performed Unit testing for various projects.
- Provided post development support for upgrades/changes/enhancements done on production(Live) environment.

Skills Acquired: JSF, MySQL, Java, JavaScript, XHTML, CSS, HTML, jQuery (Basics), JSP (Basics), REST API, SVN.

ACADEMIC PROJECTS AND PUBLICATIONS

- **Tweet Analyzer (ReactJS, CSS, Python Flask, AWS EC2)**
Developed a search engine that captures a user query, retrieves the relevant tweets using solr, performed sentiment analysis, Topic modulation (using LDA algorithm). **Daator** and **DaatAnd** algorithms are implemented and ranked using **tf-IDF** to retrieve relevant tweets and display a statistical view of the retrieved results using plotly, hosted in AWS EC2 instance.
- **Cross-platform mobile App (Expo, React native, Redux, NodeJS, AWS RDS, S3, EC2, Stripe, MSSQL)**
Built mobile app that connects freelance entertainers, artists, and socialites to businesses and hosts that are looking to hire entertainers to their events. Implemented search, sort, **push notification**, **email verification**, Image or Video upload, facebook login and **payment** option using stripe.
- **Simple Amazon DynamoDB (Android - Java)**
Implemented distributed hash table (**DHT**) for ring routing of operations such as insert, query & delete. Handled nodes (android AVDs) **crashes**, **recovery**, **failure and re - joins** seamlessly and concurrently while other nodes perform operations.
- **Group Messenger with Total and FIFO ordering Guarantees (Android - Java)**
Developed a system to send multicast messages to multiple AVDs by implementing **ISIS algorithm** for **Total(ISIS)** and **FIFO ordering**. Messages exchanged were stored as key-value pairs and the implementation was capable of handling failures of AVDs.
- **Published a Research paper in the topic "Money Generation By Utilizing Idle Time Of Computers Through Innovative Cloud Storage Outsourcing" in IJSER Journal. [PublishedLink](#)**