

Aditi Madhusudan Jain

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EDUCATION

University of Southern California, Los Angeles, CA

Jan 2021-Dec 2022

Master of Science (Computer Science) (Honors)

GPA: 4.0/4.0

Coursework : Algorithms, Database Systems, Data Mining, Machine Learning, AI, Information Retrieval

Maharashtra Institute of Technology (University of Pune, India)

Aug 2014-May 2018

Bachelor of Engineering (Computer Engineering)

GPA: 3.7/4.0

Coursework : Software Engineering, OOP, Operating systems, Business Intelligence, Smart System Design

EXPERIENCE

Amazon, Software Dev Engineer Intern

May 2022-Aug 2022

Technologies: AWS Lex, AWS Lambda, AWS Cognito, Java, ReactJS

- A+ Chatbot: Reduced 24% ticket count by learning new technologies and managing the complete lifecycle of a client-server based chatbot with unit tests to answer queries related to content creation and publishing.

USC Information Sciences Institute, Student Worker

Jan 2021-May 2022

Technologies: Python, **Tensorflow**, **Keras**, PyTorch

- UNet based Lung Image segmentation: Developed a workflow using keras with an IoU score of 0.92.
- Molecular Transformer: Built a machine translation statistical model for predicting methods of organic synthesis using PyTorch, torchtext to give an accuracy of 87% on mixed dataset (most difficult to train).

CLSA Technologies and Services Pvt Ltd. (FinTech), Analyst

Jul 2018-Dec 2020

Technologies: GraphQL, Java, **ELK**, ReactJS, Angular, Spring Boot, **OAuth 2.0**

- Effectively communicated to demonstrate a POC to reduce log parsing delays by 85% and accelerate identification of bottlenecks for trading platforms using the ELK(Elasticsearch, Logstash, Kibana) stack.
- Researched to design and present a sensitive and efficient report generation tool which contributed to 65% increase in the company participation in forums. Authorization framework used OAuth2.0.
- Zeal to learn unknown technologies and improve existing architectures drove fulfillment of all deliverables.
- Actively analyzed, proposed, optimized and delivered additional automation projects like Corporate Newsroom, sometimes requiring to learn new technologies or frameworks.

TECHNICAL SKILLS

- **Languages** : Python, Java, C++, Javascript, Typescript, ReactJS, AngularJS, Neo4j, SQL, MongoDB, Postgres
- **Frameworks** : AWS Lambda, S2, Lex; Spring Boot, Elasticsearch, GraphQL, Docker, Kubernetes, OAuth2.0
- **Big data and Machine learning** : Tensorflow, Keras, PySpark, Numpy, Pandas, MapReduce

PROJECTS

- *New CLSA Website*: Suggested and developed an alternative architecture by leveraging **GraphQL** API and **ReactJS** pages along with **ETL** between MySQL & Postgres that improved the page response time by **62%**.
- *Arcane Bot*: Headed a team of 3 to implement an innovative multi-tasker bot using **NLTK** and **Flask** in Python and **Neo4j** database as part of a hackathon. Introducing interactive maps and an expanding corpus allowed the bot to be smarter than other bots, and in turn in helping us grab the first prize.
- *Budgeting toot*: Saved **9%** budget by visualizing customizable charts and introducing effective pagination while collaborating in a team of 2 to create a high throughput, low latency software using **ReactJS** that consumed **RESTful** APIs in Java Spring Boot operating on **MySQL** for maintaining the budget of CLSA.
- *Freelancing project on automation*: Innovated to save **92%** time during project development by designing and implementing an efficient object-oriented program program in **Java** using **AWS Cloud** technologies like Lambda and S2 to automate conversion of docs file information to POJOs.

LEADERSHIP AND INVOLVEMENT

- **First** prize in Hackpulsate amongst 100 teams from all over the world, while leading a team of 3 in 2018.
- **Third** prize in Smart India Hackathon amongst 1k+ Indian teams, while collaborating with a team of 6 in 2017.
- Ranked **5th** among 250 students in checkers AI agent competition for the AI course at USC in 2021.