

Aditya Chandupatla

<https://adityachandupatla.github.io/>

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EDUCATION

- **University of Southern California** Los Angeles, CA
Master of Science in Computer Science - 3.8/4.0
Relevant Coursework: Operating Systems, Machine Learning, Analysis of Algorithms
August 2019–May 2021
- **Jawaharlal Nehru Technological University Hyderabad** Telangana, India
Bachelor of Technology in Computer Science and Engineering - 88.09% Gold Medalist
September 2013–June 2017

EXPERIENCE

- **Tesla** Software Engineer Intern
Fremont, California
January 2021–Present
Part of the Digital Experience Team, building infrastructure for a consistent, global customer experience across all digital touchpoints
- **Hulu** Software Developer Intern
Santa Monica, California
June 2020–August 2020
Distributed Tracing System – Developed a low latency (asynchronous) and secure (JWT) ingestion service that tracks events (1 million per day) occurring in Hulu's distributed metadata ETL pipeline, processing data from 20 different sources. Responsible for end-to-end development, from writing source code, testing, containerization, setting up CI/CD pipeline using Jenkins and Spinnaker, and deploying into production on AWS cloud using Terraform and Kubernetes.
Achievements – Added Kibana support to visualize several metrics such as: progress tracking, failure detection, alerts, and performance bottlenecks. Reduced time taken by developers to search metadata documents down to single-digit seconds while not violating tight SLA requirements of pipeline.
- **Teradata** Software Engineer
Hyderabad, Telangana
July 2017–December 2018
Analytics – Utilized micro-services architecture for automating data migration between two databases. Involved in extraction and development of feature set for time estimation task. Employed regression techniques to construct model and achieved an accuracy of 89%. Collaborated with a team of 15 engineers to create infrastructure for error detection module, to analyse logs from several services and push error messages to state-machines for performing analytics.
Tensorflow – Integrated Google's distributed 'Tensorflow,' into Teradata by incorporating table-operators to provide end user with capabilities to run analytical queries right within database.
GPU – Implemented a prototype to accelerate database aggregation operations using GPU (NVIDIA GeForce GTX 1070). Achieved a performance boost of up to 3X on a dataset containing 32 million records.
- **VMware** Intern - IT
Bengaluru, Karnataka
January 2017–July 2017
Full-stack Web Development – Took initiative to engineer utility dashboard to provide unified view of plethora of micro-services. Using it, one can perform REST calls, interact with SOAP web-services, compare configuration files, build versions and monitor health of services. Led to faster deployment times, increased productivity.

TECHNICAL SKILLS

- **Languages:** Java, Python, C/C++, CUDA, SQL, JavaScript
- **Frameworks/Tools:** Terraform, Kubernetes, Docker, Git, Java Spring, AWS (SQS, S3), Python Django, Apache Kafka, Apache Spark, Elastic stack (Elasticsearch, Kibana and Logstash), Tensorflow, Android, Linux/Unix, Datadog

HONORS AND AWARDS

- **Best outgoing student of B.Tech CSE:** Awarded best outgoing student gold medal, and Endowment Medal for stellar academic performance by University Vice chancellor and director of IIT Delhi.
- **Programming Competitions:** Ranked 992 in ACM International Collegiate Programming Contest (ICPC.) Stood 1st in multiple programming contests conducted by Computer science department of Osmania University.

PROJECTS

- **Weenix Operating System:** An operating system developed as part of course CSCI 402, at USC. Supports processes, threads, virtual file system and virtual memory. Considered one of most challenging graduate-level projects at USC.