

# Aditya Chandupatla

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

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## EDUCATION

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

## EXPERIENCE

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- **Tesla** Software Engineer Intern  
Fremont, California  
January 2021–May 2021  
**Ownership Transfer** – Revamped existing platform which facilitates seamless transfer of vehicles (Models S3XY) and subscriptions such as premium-connectivity, autopilot, and full-self-driving. Utilised Conductor (open-source microservice orchestration engine) to provide visibility and traceability into the process flows.  
**Achievements** – Saved developer hours by providing ability to pause, resume, restart, retry and terminate requests. The new asynchronous and parallel event based platform delivers 2x faster response times.
- **Hulu** Software Developer Intern  
Santa Monica, California  
June 2020–August 2020  
**Distributed Tracing System** – Developed a low latency, asynchronous and secure, cloud-native ingestion service that tracks over 1 million events occurring everyday in Hulu's distributed metadata ETL pipeline. Responsible for end-to-end development, including testing, containerization, and setting up CI/CD pipeline.  
**Results** – Deployed into production on AWS cloud using Terraform and Kubernetes. 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%.  
**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 based on REST and SOAP. Led to faster deployment times, increased productivity.

## TECHNICAL SKILLS

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- **Languages:** Java, Python, C/C++, CUDA, C# (.NET), SQL, JavaScript (Express, Angular, Node), TypeScript
- **Frameworks/Tools:** Terraform, Kubernetes, Docker, Java Spring, AWS, Apache Kafka, Elasticsearch, Splunk

## HONORS AND AWARDS

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- **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

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- **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.
- **Large scale Data Mining using Apache Spark:** Implemented popular data exploratory algorithms such as: discovering frequent item sets, collaborative filtering and detecting communities in a dense social network.