



ADITYA BARSAINYA

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EDUCATION

University of California San Diego (UCSD), San Diego, CA

September 2021- June 2023(exp.)

Master of Science in Computer Science

M.S. Ramaiah Institute of Technology, Bangalore, India

August 2014 - June 2018

Bachelor of Engineering in Computer Science and Engineering

GPA: 9.39/10

WORK EXPERIENCE

GRAB

Bangalore, India

Software Engineer | Payments Core Team

December 2019 - August 2021

- Developed Payment SDK to provide a unified payment experience, the primary focus was to consolidate the wallet landscape to make it more user-friendly which resulted in 100% retention and a 28% Increase in the userbase.
- Built a user data ingestion Kafka pipeline to stream out the crucial transaction data to the Finance Team.
- Reduced 85% of CE Ops work by introducing features like auto-reject payment requests and bulk request processors.
- Lead a team of 4 people to work in the agile environment, worked as Scrum master and conducted KT session.

Software Engineer | Digital Marketplace Team

July 2018 - November 2019

- Launched Bill payment solution by building scalable microservice in Python using AWS step function, Amazon RDS, Redis and hosted on AWS cloud. Which resulted in a total of 8% TPV uplift in the whole Grab ecosystem.
- Reduced 63% of transaction fraud by remodelling payment flows through Implementing Authorize and Capture architecture using Python Dispatcher and Kafka. The new architecture was able to handle 250K requests per day.
- Spearheaded the development of an Auto-Settlement module to settle payments directly with merchant and allow multiple aggregators to be onboarded for the same product and helped reducing manual work by 71%.
- Received SPOT award by peer nomination at Grab for contributions to Grab Pay Digital Marketplace platform across Southeast Asia.

Intel Technology India Pvt Ltd

Bangalore, India

Application Developer Intern | Enterprise Data Warehousing Team

January 2018 - June 2018

- Developed an ETL application to perform data modelling and reformatting using Teradata and Ab Initio. Other key features of application Included Data Quality checks, Logging and Metadata maintenance.
- Accommodated 17% more data just by expanding the database by 6%.

RESEARCH PROJECTS & PUBLICATIONS

Handling Uncertainty in Linguistics

Using Semantic Networks | Python (tkinter, mixer, pickle), Networkx, Textrazor [\[code\]](#)

January 2018 - May 2018

- Designed a learning agent to creates a Knowledge Base using a semantic network to handle ambiguity in various domains.
- The project was awarded as the best final year project in the CSE department.

Using Probability Theory | Python (nltk, pandas), PyMySQL, Apache [\[code\]](#)

August 2016 - January 2017

- Project aims at portraying the capabilities of probabilistic approaches in handling uncertainty. A learning agent was designed with a knowledge base as SQL database to handle ambiguity while taking orders in a food mart.
- Research was [published](#) in an international journal and presented in the **International Symposium on Data Science and Big Data Analytics (ISDB)** at Sri Aurobindo Institute of Technology, Indore 2018.

Analysis and Prediction of Survival after Colorectal Chemotherapy

Using Machine Learning Models | R (plyr, caret, rpart), Matplotlib [\[code\]](#)

June 2017 - September 2017

- Developed a framework using various machine learning models for analysing medical data on colon cancer patients and predict the survival probability (recurrence/death) after chemotherapy.
- Research was [published](#) in a Journal Article **International Conference on Advances in Computing, Communications and Informatics (ICACCI)**.

KEY SKILLS

- **Languages** : Python, Go, Java, HTML, CSS, R, SQL, MongoDB
- **Frameworks and Technologies** : Linux, Git, AWS (EC2, ELB, DynamoDB, Elastic Cache, S3, Step function) Jenkins, REST API, gRPC, Kafka, Dispatcher, Terraform, Docker
- **Tools** : Ab Initio, Teradata, Autosys, Datadog, Kibana, Consul, Phabricator, Postman