Aditya Barsainya

abarsainya@ucsd.edu | +1-858-319-5244 | github.com/adityabarsainya | linkedin.com/in/aditya-barsainya

Education

Examination/ Degree	University/Board	Year	% / GPA
Standard XII	C.B.S.E	2013	84.2%
B.E.(Computer Science & Engg)	Ramaiah Institute of Technology	2014 – 18	9.39/10
M.S.(Computer Science)	University of California San Diego	2021 – Present	Nil

Skills

- **Languages**   : Go, Python, Java, C++, HTML, CSS, SQL, MongoDB.
- **Technologies**   : Kafka, Linux, Node.js, Git, AWS, Redis, Jenkins, REST, GRPC.
- **Tools**   : Ab initio, Teradata, Autosys, Wireshark, Postman, Datadog, Kibana.

Work Experience

- **Grab** (Software Engineer, Payments Core)   Dec 2019 - Aug 2020
    - Contributed to project **Helios**, the primary focus of the project was to consolidate the wallet landscape to improve the experiences and provide a more simple and easy way for users to manage their wallets.
    - Assisted on project **Cortex** that requires sending crucial user data to the Finance Team, which included the implementation of the Kafka stream to enable the flow of user data.
    - Implemented bulk cashout mechanism to provide support for CEOps to enable or disable the cashout feature for the driver wallet. Also developed a feature to facilitate fraud team to auto-reject payment request which considerably reduced CEOps manual work for marking the transaction as fraudulent.
    - Planned and coordinated restructuring of Payments service into multiple microservices, which include splitting of database and executing phased deployment for different services based on there use cases.

- **Grab** (Software Engineer, Digital Marketplace)   Jul 2018 - Nov 2019
    - Built a microservice to support the phase rollout of Prepaid and Billpay products in various SEA countries like Indonesia, Vietnam, Malaysia, and Singapore.
    - Developed an **Auto-Settlement** module to settle paymensts directly with the merchant, The feature facilitated tagging of each transaction with the respective merchant. Which helped in on-boarding multiple aggregators for the same products.
    - Designed and created **Auth & Capture** payment flow for GPDM and which included a framework to supported Auth & Capture async flows using dispatcher and Kafka.
    - Implemented **Payment SDK** which allowed the GPDM service to provide a unified payment experience in the Grab ecosystem. The feature included a dynamic page layout module in which BE controls all UI components and FE acted as a placeholder. Later the functionality was extened to provide content for different FE elements depending upon the language and country.

- **Intel Technology India Pvt Ltd.** (Application Developer Intern)   Jan 2018 – Jun 2018
    - Worked on different enterprise software like Ab initio, Teradata to handle extraction, transformation, and loading of large amounts of data from multiple data warehouses which are later integrated into a single target system that is utilized by the downstream services.

Publications & Presentation

- Patil A.P., **Barsainya A**., Anusha S., Keerthana D., Shet M.J. (2019**) "Handling Uncertainty in Linguistics Using Probability Theory"**. In: Mishra D., Yang XS., Unal A. (eds) Data Science and Big Data Analytics. Lecture Notes on Data Engineering and Communications Technologies, vol 16. Springer, Singapore. https://doi.org/10.1007/978-981-10-7641-1_21

- **Barsainya,** A. Sairam and A. P. Patil, **"Analysis and Prediction of Survival after Colorectal Chemotherapy using Machine Learning Models,"** 2018 International Conference on Advances in Computing, Communications and Informatics (ICACCI), Bangalore, 2018, pp. 862-865, doi: 10.1109/ICACCI.2018.8554832.
- Presented a paper titled "Handling Uncertainty In Linguistics Using Probability Theory" in the **International Symposium on Data Science and Big Data Analytics(ISDB)** at Sri Aurobindo Institute of Technology, Indore in 2018.

Academic Projects

- Designed a learning agent that creates a Knowledge Base(KB) using a semantic network. The learning agent uses the KB to handle uncertainty while taking orders in a food mart. The project was awarded as the best final year project in CSE Dept.
- Developed a framework using various machine learning models for analyzing medical data on colon cancer patients and using the data to predict the survival probability (recurrence/death) after the chemotherapy session.
- Using the Pygame module of Python, developed a game called "**Confusion**" which test for the reflexes and motion control of users and was awarded 100%.
- **Sentimental Analysis** using basic Python programming to generate **word map** with the help of K-mean cluster. Based on Sentimental Analysis categorizing characters of the book either good or evil.
- Developed website and back-end database for CSE department to automate the name of students who have won events conducted by College.
- Simulated Carrier Sense Multiple Access with Collision detection **(CSMA/CD) using C**++ and was awarded 100% as part of the Data Communications course.
- Developed "**SpamKiller**" Android app to identify spammers, block the spammer and delete the spam message either by selecting them manually or classifying them based on text analysis of the content of the message.
- Created an **unbiased dice circuit** as part of Electronics Circuits and awarded 100%.
- Created **Dynamic Traffic Control System** using Cortex M0. Using UltraSonic Sensor (HC-SR04).
- Developed a SDLC Simulation Model for "**E-Repository**" system.

Training & Certification

- Successfully completed Web Designing and PHP programming training at **Kian Infotech**.
- Acquired A+ grade in C/C++ training conducted by **WEBCOM Technologies**.
- Attended technical seminar and workshop on Hadoop organized by **HP Enterprise** and received a certificate of completion for the project Hadoop File System.
- Secured 79% in Design & Analysis of algorithms, 67% in Operating System, 68% in Cloud Computing and 64% in Network Security certified by National Programme on Technology Enhanced Learning (**NPTEL**) conducted by IIT Madras and IIT Kharagpur.
- Attended Six weeks Proficiency Program conducted on IOT Application.
- Part of the organizing team managing and conducting **Adhoc** and **Incognito**, CSE Department fest. Worked as **Core Member** in Ignite technical fest held at RIT. Volunteer for organizing event **TEDx**RIT.