Aditya Desai

(+91) 8866117246 • Email: desaiadityape@gmail.com
linkedin.com/in/desai-aditya • **github**.com/desai-aditya

EDUCATION

BIRLA INSTITUTE OF TECHNOLOGY AND SCIENCE (BITS), PILANI   Hyderabad, India
Bachelor of Engineering in Electronics and Electrical (CGPA: 8.36/10)   Aug 2015 - May 2019
Relevant Coursework : Operating Systems, Computer Architecture, Selected Topics From Computer Science(Adv. Machine Learning), Data Mining, Data Structures and Algorithms, Discrete Structures of Computer Science, Information Retrieval

PROFESSIONAL EXPERIENCE

SAMSUNG RESEARCH   Bangalore, India
Software Engineer/Senior Software Engineer   Jul 2019 - Dec 2021
• Developing 5G Small Cells in the Operations, Administrations, and Management team. **Best project of 2020.**
• Designed a translator that facilitates the translation of Korean to English and gained an approximate **speedup of 70%** over other internal tools. Added a vim plugin of it as well that helped people globally in increasing their efficiency.
• Single-handedly built a Python-Flask and ReactJS-based internal tool to allow intercommunication between cell phone operator systems with cell stations of different releases and different operators. Containerized it using docker and led to potential savings of **$300,000 and more than 10,000 developer-hours annually**.
• Implemented two important Fault Alarms and Recovery mechanisms in C/C++ for the Indoor AU(Access Units) Small Cells.
•Winner of an award to provide training for the LD department to **over 100 people** and mentoring four candidates for an internal test Software Competency Professional Test that I cleared twice. Also awarded the "Career Story of the 2021 Q".

NATIONAL UNIVERSITY OF SINGAPORE/CORPORATE GURUKUL   Singapore
Teaching Associate   June 2018 - July 2018
• Supervised a batch of **93 students** in the program of Big Data Analytics with Artificial Intelligence by working with NUS professors and HP professionals. Helped out by conducting recitations, providing debugging support, and organizing a mini-Kaggle competition for sentiment analysis on the Yelp Dataset.

RESEARCH EXPERIENCE

SAMSUNG RESEARCH   Bangalore, India
Research Assistant   January 2019 - May 2019
• Designed a novel algorithm for **MAC scheduler** in the LTE protocol stack using **reinforcement learning**. Used tensorflow to simulate the connections and scheduling based on the **deep Q learning** model.

BIRLA INSTITUTE OF TECHNOLOGY AND SCIENCE (BITS), PILANI   Hyderabad, India
Research Assistant   August 2018 - December 2018
• **An efficient neural network model for real-time fault detection in industrial machines - Neural Computing and Applications(2020)**. Led a team of 4 students to use machine learning techniques to find faults in a 3 Phase Induction Motor.

CERTIFICATIONS

OFFENSIVE SECURITY WEB EXPERT - OFFENSIVE SECURITY   AUGUST 2020
• Able to identify vulnerabilities in web applications by performing deep source code review and chaining vulnerabilities like XSS, CSRF, SQLi (boolean and blind), serialization vulnerabilities, authentication flaws and using magic hashes.

BIG DATA ANALYTICS WITH ARTIFICIAL INTELLIGENCE   DECEMBER 2017
• Secured A+ in the course where NUS professors along with HP professionals taught us about various machine learning concepts such as Neural Networks and big data technologies of the Hadoop ecosystem like HDFS, YARN and Spark.

AWARDS AND HONORS

• **Winning** prize in **IMI Mobile Hackathon** by developing a phone recommender system.
• **Winning** prize in a pwn-based Capture The Flag at **Samsung Research, Bangalore**.

SKILLS

• **Programming:** C/C++, Python, Java, Go, Flutter, Bash, R, Powershell, SQL, HTML, JS, Assembly
• **Tools & Platforms:** linux, vim, git, perforce, tensorflow, matlab, reactjs, flask, burpsuite, GDB, metasploit, make
• **Languages:** English, Hindi, Gujarati, French, Spanish, American Sign Language

VOLUNTEER EXPERIENCE

• Volunteered at Bahera Munga Kalyan Society - a Surat-based Deaf-Mute association to spread awareness on security.