

ABINASH MAHARANA

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EDUCATION

B. Tech + MS by Research in Computer Science and Engineering (Dual Degree)

International Institute of Information Technology, Hyderabad

July 2018 – July 2023 CGPA: 8.18/10

* Merit list - Spring 2021, Monsoon 2022

WORK EXPERIENCE

Freelance Developer

fiverr.com

May 2020 – July 2020 Remote

- Worked on various projects for clients building full stack web applications, standalone Single Page Applications, and web design.
- Technologies: MERN Stack, Firebase Firestore.

SDE Intern

Salesforce

May 2022 – July 2022 Hyderabad, India

- Improved an existing full stack web application by using open-source as well as internal technology. Additionally also won the intern hackathon during that period.
- Technologies: Node, Redis, React

Software Developer

Salesforce

July 2023 – Present Hyderabad, India

- Worked on Salesforce Reports, an integral part of their core application that has billions of instances.
- Worked on an internal codebase based on Java and Javascript.

RELEVANT COURSEWORK

- Core Computer Science** : Data Structures and Algorithms, Introduction to Software Systems, Design and Analysis of Software Systems, Computer Systems Engineering, Algorithm Analysis and Design, Software Programming for Performance, Database Systems, Data and Applications.
- ML & AI** : Machine, Data, and Learning , Statistical Methods in AI , Data Analytics, Computer Vision.
- Mathematics** : Probability and Statistics, Linear Algebra, Discrete Structures, Real Analysis, Introduction to Information Security.
- Miscellaneous** : Introduction to IoT, Embedded Systems Workshop.

ACHIEVEMENTS

ACM-ICPC 2018 :

- Team rank 867 in ACM ICPC online round.

Competitive Programming Profile :

- Rated 1833 in CodeChef

Other Scholastic Achievements :

- Selected for National Talent Search Examination Scholarship Award-2015-16.
- Recommended, with an All India Rank 482 for KVPY Fellowship Award-2016-17.

SKILLS

- Languages** : Java, C, C++, Python, JavaScript.
- Technologies** : MongoDB, React JS, Node JS, Bash, MySQL, PHP.
- Data Science and ML** : Pandas, numpy, scikit-learn, PyTorch, OpenCV.
- Miscellaneous** : Linux, x86-Assembly, Git, Arduino.

PROJECTS

JetPack Joyride

- Created a terminal-game replica of the famous game Jetpack Joyride in Python without the use of external libraries such as PyGame. [**Python, OOPS**]

Linux Shell

- Used syscalls to create a basic bash-like Linux shell in C programming language. Key features included foreground and background processes, piping, redirection, signal handling and user defined commands. [**C, Operating Systems**]

In-Memory Key-Value Storage Software in C++

- Built an in-memory key-value storage system in C++ which supports multithreading. Keys and values were char strings. Built without using any boost libraries. [**C++, Performance Programming, Multithreading**]

Content Management System

- Created a MERN web application that implements the use of most Firebase features like authentication, realtime database, storage to provide login/signup, image uploading. Link. [**MERN Stack, Firebase**]

Image Classifier

- Developed a multi-class image classifier using PyTorch to predict the class of an image. Used various concepts from machine learning to train a Neural Network manually. [**Deep Learning, ML, Computer Vision, PyTorch**]

SQL Engine Expansion

- Improved a simple SQL engine to add features such as support for Matrices, indexing and bulk queries. [**C++, Relational Database**]

RESEARCH

- Data mining research at Data Science and Analytics Center, IIIT-H : Worked on pattern mining algorithms and applications. Published a **full research paper** in the reputed conference PAKDD 2023 on the topic of Knowledge Graphs (2020 - 2023)

EXTRACURRICULARS

- Volunteered at TEDx Hyderabad (2018).
- Outreach team at Alumni Cell, IIIT-Hyderabad (2019-2023).