

Abhinav Sharma

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Education

Birla Institute of Technology and Science

Pilani, Rajasthan

B.E. (HONS.) COMPUTER SCIENCE & M.SC. (HONS.) MATHEMATICS

2015 - 2020

CGPA 8.74

Technical Proficiency

Languages Java, JavaScript, Python, C

Subjects Compiler Construction, Artificial Intelligence, Computer Networks, Graph Theory, Data Structures & Algorithms, Discrete Mathematics, Design and Analysis of Algorithms, Database Management Systems

Work Experience

Microsoft IDC

Noida

SOFTWARE ENGINEER

Jun. 20 - Present

- Creating a **realtime collaborative** React based web application (fluid preview) using **Fluid Framework**.
- Integrating fluid preview with Office-365 ecosystem.
- Supporting AI assisted tasks in Microsoft Team meetings.

Qubole

Bengaluru

SOFTWARE DEVELOPMENT INTERN

Jul. 19 - Jun. 20

- Developed a **web portal** to **manage analysis and signoff** of release cycle regressions.
- Performed **analysis of execution time** of tests to identify **worst-performing test** and thus **reducing the cost** of **running a regressions**.
- Provided support of **Airflow v1.10.9** on Qubole Data Service for **all major cloud platforms** (Aws, Azure and GCP).

Larsen And Toubro Ltd.

Mumbai

SOFTWARE DEVELOPMENT INTERN

May. 17 - Jul. 17

- Developed a **design plan for a cost estimation software** for L&T that would **replace the use of excel** to do the same.
- Developed a design plan for a software that would **integrate the work of 4 business units of L&T**.

Projects

Compiler Construction

COMPUTER SCIENCE

Jan. 19 - May 19

- **Built a compiler** for a programming language under the course of compiler construction. The coding for the compiler was done in **C language**.

Commuting Graphs of semigroups

GRAPH THEORY

Jan. 19 - May 19

- Studied properties of **commuting graphs of semigroups**, namely **Symmetric Inverse Semigroup** and **Brandt semigroup**.
- **Identified new properties** in non-commuting graphs for Brandt semigroup.

Problem Solving Agents

ARTIFICIAL INTELLIGENCE

Aug. 18 - Nov. 18

- Developed a **problem-solving agent** for **max-square Match Stick Problem** and **container stacking problem**.
- **Implemented a logical agent** that answers **first-order logic queries**.
- Created a **bot for checkers game** that used **alpha-beta pruning** while searching for a best possible move.
- Developed an agent to do **probabilistic reasoning** based on **Bayesian Network**.

Clustering In Graphs

GRAPH THEORY

Jan. 18 - May 18

- **Analyzed and implemented** various algorithms used for **clustering of large data** using graphs.
- **Compared the performances** of my implementation of algorithms on data set from **social networking sites** as well as **teleshopping sites**.

Awards

Bits Open Sports Meet

Aug. 17

Won gold medal in Volleyball at the BITS Open Sports Meet 2017.

Inspire Scholarship

Oct. 17

Awarded Scholarship by Government Of India for my performance in Joint Entrance Exam (Advanced) 2015.