

# ABHIK JAIN

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## EDUCATION

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**International Institute of Information Technology, Naya Raipur**  
Bachelor of Technology  
Department of Computer Science & Engineering

August 2019 - present  
SCGPA: 9.6

**Amity International School, Gurgaon**  
CBSE Class 12<sup>th</sup>

2018-19  
Overall Percentage: 92.4%

**Amity International School, Gurgaon**  
CBSE Class 10<sup>th</sup>

2016-17  
Overall CGPA: 10.0

## INTERESTS

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Parallel Algorithms, HPC  
Mathematical Computing  
Open Source, Free Software

## TECHNICAL STRENGTHS

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|---------------------------|--|
| <b>Programming</b>        | Rust, C/C++, Python(Numpy, Matplotlib, SciPy), Java & Bash |
| <b>Frameworks</b>         | OpenGL, OpenCL, OpenMPI, OpenCV                            |
| <b>Databases</b>          | Postgres, MariaDB, MongoDB                                 |
| <b>Other Technologies</b> | Linux, Git, WebAssembly, Docker, Kubernetes, Node.js       |

## PROJECTS

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### Graph Theory Engine

*Supervisor: Dr. Ramakrishna Bandi*

Implemented various graph algorithms in C++ and Rust.

### Rubix Cube Solver (Ongoing)

Implementing Thistlethwaite's algorithm for solving rubik's cube in Rust ,WebAssembly and WebGL

### Raytracer in Rust (Ongoing)

Implementing a Ray Tracer in Rust which can render realistic 3D images, and simulated materials like dielectric, metal and lambertian, along with features like motion blur.

### Smart Electricity Bill

*Supervisor: Dr. Venkanna*

Created a website on which users can register and upload pictures of their electric meters, and AI on the server side will extract digits, from which bill will be calculated. Backend in Node.js and Python.

### Course Management System

*Supervisor: Dr. Shivani Sharma*

Created a Course Management System in Java using SQLite3 in backend for database.

## ACHEIVEMENTS

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- Highest CGPA in 1st Semester of college
- Core Member of college's coding club TSoC (The Society of Coders)
- Core Member of college's AI/ML Club

## EXTRA-CURRICULAR

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Member of college's Basketball Team  
Participated in CBSE National Yoga Competition (2019, 2018)  
Runner up in CBSE District Yoga Competition (2019, 2018, 2017)  
Cleared Rockschool Electric Guitar Grade 2