

Indian Institute Of Technology Kanpur

□ (+91) 70-5417-9587 | 🗷 akashdut@iitk.ac.in | 🏕 home.iitk.ac.in\~akashdut | 📮 AkashKrDutta | 🛅 akash-kumar-dutta

Education

Indian Institute Of Technology Kanpur

Kanpur, India

BACHELOR OF TECHNOLOGY, MAJOR IN COMPUTER SCIENCE AND ENGINEERING

2015 - 2019 (Expected)

• Cumulative Grade Point/CGPA: 9.73/10

Honors & Achievements

| 2016 | Academic Excellence Award, Institute Rank-1, 1st Year | IIT KANPUR |
|------|---|-----------------|
| 2016 | Junior Research Associate, Designated for project in Parallel Programming | IIT KANPUR |
| 2015 | All Subject A stars (Exceptional Grade), Only Student to get A stars in all subjects in 1st sem | IIT KANPUR |
| 2015 | All India Rank - 144, Joint Entrance Exam Advanced, 1.5 million candidates | India |
| 2015 | ISI Qualifier, Qualified in Indian Statistical Institute (ISI) Examination | Kolkata, India |
| 2015 | Merit Cerificate Awardee, Overall 95%, Class 12 National Exam CBSE | India |
| 2014 | KVPY Scholarship Awardee, Indian Institute Of Science and Government Of India | Bangalore,India |
| 2014 | International Mathematics Olympiad Rank-25, Science Olympiad Foundation | India |
| 2013 | Cumulative Grade Point Average CGPA- 10/10 , Central Board Of Secondary Education (CBSE) | India |

Work Experience _____

Parallel Programming IIT Kanpur

JUNIOR RESEARCH ASSOCIATE, PROF MAHINDRA AGARWAL

May 2016 - July 2016

- Implemented 3-Dimension Multigrid Solver for Poisson Equation in CUDA.
- Extensive parallel programming methods used for enhancing code performance.
- · Optimization techniques and CUDA Libraries used.
- Code was an outline to be run on IIT Kanpur Supercomputer.

Projects ____

PROGRAMMING CLUB

N-BODY Simulation in CUDA

IIT KANPUR

ACA (ASSOCIATION OF COMPUTER ACTIVITIES)

Jan 2016 - April 2016

- Demonstrates the path of a particle in multiple object gravity field systems using Parallel Programming.
- CUDA architecture is used together with Open CV to make the visual realisation.
- Much faster than serial code, implemented optimization techniques.

Positions Of Resposibility _____

Secretary IIT Kanpur

April 2016 - PRESENT

- Organized coding competitions and workshops in IIT Kanpur.
- Proposed projects for juniors based on our work experience.

Mathematics Mentor IIT Kanpur ACADEMIC MENTOR

April 2016 - PRESENT

- Positioned for students well aquainted with mathematics knowledge.
- To enhance the mathematics culture of college by guiding juniors in mathematics.

Student Guide IIT Kanpur COUNSELLING SERVICE April 2016 - PRESENT

- Few senior students chosen as Student head are allotted to group of freshmen for guiding them.
- Helping freshmen get acquainted with the college system and culture.



Programming: C, C++, CUDA C/C++, Python, Problem Solving.

Web: HTML, CSS, Javscript, Bootstrap.

Operating Systems: Ubuntu, Linux Mint, Windows.

Utilities: LaTEX, Shell Scripting, CUDA, Git, GitHub.

Relevant Courses

• Mathematics: Real Analysis(A*), Linear Algebra & Single variable Calculus(A), Discrete Mathematics, Abstract Algebra(A), Logic.

- **Computer Science :** Fundamentals Of Computing(A*), Data Structures and Algorithms(*), Computer Organization(*), Computing Laboratory(*).
- **Others:** Introduction to Sociology(A*), Introduction to Economics(*).

A*: Exceptional Performance

A: Excellent Performance

(*): Course in progress

Miscellaneous _____

- Actively take part in Competitive Programming contests: Hackerrank-CodexGamer.
- Actively maintain my blogs at akashkrdutta.github.io