

Akash Kumar Dutta

Second Year Undergraduate
Department Of Computer Science and Engineering
Indian Institute Of Technology, Kanpur

akashdutta@iitk.ac.in
<https://akashkrdutta.github.io>
+91-7054179587
Hackerrank Profile : CodexGamer

Education

Institute	Board/Branch	Result	Duration
Indian Institute Of Technology, Kanpur	B.Tech, Computer Science and Engineering	CPI 9.73/10	July 2015-Present
Jamshedpur Public School	All India Senior School Certificate Examination (AISSE) - CBSE	95% CGPA 10/10	2015 2013

Honours And Achievements

Scholastic Achievements

- Institute Rank-1 at IIT Kanpur, 1st Year
- Student Research Associate at IIT Kanpur
- Exceptional Performance (A^* grade) in all courses in 1st Semester
- Secured AIR 144 in JEE Advanced 2015
- Secured AIR 97 in Kishore Vaigyanik Protsahan Yojana (KVPY) conducted by IISC Bangalore
- Secured AIR 25 in International Mathematics Olympiad, SOF

Other Awards and Achievements

- Secured Rank 74 in Goldman Sachs Quantify (2016): Real life problems in competitive programming competition on Data Structures, Algorithms and Machine Learning.
- Attended the Vijyoshi Camp (research motivation camp) in IISER Kolkata, 2014
- Qualified in Indian Statistical Institute (ISI) examination and interview.

Work Experience

Poisson Equation Solver

Supervisor: Mahindra Kumar Verma May-July 2016

- Implemented 3-Dimension Multigrid Solver for Poisson Equation using Parallel Programming
- Implemented Jacobi Iterator Method to solve the Poisson Equation using CUDA Libraries
- Code was an outline to be run on IIT Kanpur Supercomputer

Projects

N-Body Simulation

Association Of Computer Activities (ACA) Jan-May 2016

- Simulates the path of multiple particles in multiple object gravity field systems using Parallel Programming
- Open CV used with CUDA to make the visual realization

Game Theory

Supervisor: Sunil Simon Jan 2016 - Current

- A Learning project on the Algorithmic aspects of Game Theory
- Aimed at coding Game Theory algorithms for development of an API

Technical Strenghts

Computer Languages : C/C++, CUDA C/C++, Python

Skills : Problem Solving, Web Development, OpenCV

Tools : Git, \LaTeX , Vim, Shell Scripting, Unity

Platforms : Ubuntu, Linux Mint, Windows

Relevant Courses Undertaken

Computers : Data Structures and Algorithms*, Computer Organization*, Fundamentals of Computing, Intro to Logic, Computing Laboratory*

Maths : Abstract Algebra, Linear Algebra and ODE, Discrete Mathematics, Introduction to Calculus and Real Analysis, Probability and Statistics*

Physics : Physics I (Mechanics), Physics II (Electrodynamics)
*In Progress

Campus Activities

Freshers Inferno Cricket Team 2015

Secretary, Programming Club 2016-Current

Academy Mentor and Student Guide, Counselling Service 2016-Current