

Akash Kumar Dutta

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Hackerrank Profile : CodexGamer

Education

Institute	Board/Branch	Result	Duration
Indian Institute Of Technology, Kanpur Jamshedpur Public School	B.Tech, Computer Science and Engineering All India Senior School Certificate Examination (AISSCE) - CBSE	CPI 9.75/10 95% CGPA 10/10	July 2015-Present 2015 2013

Honours And Achievements

Scholastic Achievements

- Student Research Associate at IIT Kanpur
- Exceptional Performance (A^* grade) in all courses in 1st Semester
- Academic Excellence Award 2015-2016 for meritorious academic performance in IIT Kanpur
- Secured AIR 144 in JEE Advanced 2015
- Secured AIR 97 in Kishore Vaigyanik Protsahan Yojana (KVPY) conducted by IISc Bangalore and attended Vijyoshi camp in IISER Kolkata
- Secured Rank 25 in International Mathematics Olympiad, SOF

Algorithmic Contests

- Secured Rank 72 in Goldman Sachs Quantify (2016): Real life problems in competitive programming competition on Data Structures, Algorithms and Machine Learning.
- Secured Rank 84 in Ad Infinitum18, a two day Mathematical programming contest among 4060 participants in Hackerrank
- Secured Rank 82 in 101 Hack 50, a 3 hours algorithmic contest among 2687 participants in Hackerrank

Work Experience

Deployment Of Distributed Graylog Service And Benchmarking Databases

Software Developer Intern, JUSPAY May-July 2017

- Used Kubernetes to deploy parallel, scalable and stateful nodes in GCE and AWS of Graylog Service consisting of Elasticsearch and Mongo DB at backend
- Benchmarked Databases focusing on transactional use cases (OLTP) : Influx DB vs Timescale DB and Timescale DB vs PostgreSQL (specifically based on pg_partman)

Poisson Equation Solver

Student Research Associate May-July 2016

Supervisor: Professor Mahindra Verma

- Implemented 3-Dimension Multigrid Solver for Poisson Equation using Parallel Programming techniques in CUDA
- Used Thrust CUDA Library and implemented Jacobi Iterator method for solving the Poisson Equation

Projects And Hackathons

N-Body Simulation

Association Of Computer Activities (ACA) Jan-May 2016

- Simulated the path of particles in multiple object gravity field systems using Parallel Programming in CUDA
- Used Open CV with CUDA to make the particle simulation

Microsoft Code.Fun.Do

- Developed a universal app "Experience" in which people can share any of their travel and technological experiences

Google Hackathon

- Used Unity to make a game "RocknRoll"

Technical Strenghts

Computer Languages : C/C++, CUDA C/C++, Python
Skills : Problem Solving, Web Development, Shell Scripting, Benchmarking Databases
Tools : Kubernetes, Docker, Git, \LaTeX , Vim, Unity
Platforms : Ubuntu, Linux Mint, Windows

Campus Activities

Secretary, Programming Club 2016-2017
Freshers Inferno Cricket Team and Cricket Camp 2015
Academy Mentor and Student Guide, Counselling Service 2016-2017