

Ayush Bansal

SECOND YEAR UNDERGRADUATE · COMPUTER SCIENCE AND ENGINEERING

Indian Institute of Technology

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Education

Year	Degree	Institution(Board)	CGPA/%
July'16 – Present	B.Tech, CSE	Indian Institute of Technology, Kanpur	8.2/10.0
2016	AISSCE – XII	Saint Josephs School, Kota (CBSE)	95%
2014	AISSCE – X	Saint Pauls School, Kota (CBSE)	94%

Honors & Awards

2016	All India Rank 187 , Joint Entrance Exam Advanced, 200,000 candidates	India
2016	All India Rank 571 , Joint Entrance Exam Mains, 1.5 million candidates	India
2016	All India Rank 52 , KVPY Scholarship, Indian Institute of Science and Governmentt of India	Bangalore, India
2015	Merit Certificate, National Top 1% , Indian National Chemistry Olympiad	India
2015	Merit Certificate, State Top 1% , Indian National Astronomy Olympiad	India

Work Experience

New York Office, IIT Kanpur

Kanpur, India

SYSTEM ADMINISTRATION

May 2016 - Present

- Summer Internship continued as a volunteer.
- Worked on a scalable microservice based web application with an extensive technology stack.
- Deployed overall service infrastructure utilizing Docker container, Coreos Container Linux, JenkinsCI, and maintaining the microservice cluster on Kubernetes.
- Implemented Persistent Volume Storage System.
- Technologies used: Kubernetes, Docker, Nginx, Coreos Applications, Glusterfs.

Projects

Linux Memory Management

IIT Kanpur

COURSE PROJECT, PROF. DEBADUTTA MISHRA

Oct. 2017 - Present

- Aim is to create a better **Virtual Address** organization.
- Finding wastage (internal fragmentation) in page table pages.
- Studying compressibility of page tables for different applications.

Ethical Hacking

IIT Kanpur

PROGRAMMING CLUB

Summer'2017

- Exploited various exploits like buffer-overflow, integer-overflow.
- Used various debuggers to learn how to reverse-engineer a binary or exploit it.
- Performed various web attacks like sql-injection, javascript vulnerabilities.

Linux From Scratch

IIT Kanpur

ASSOCIATION OF COMPUTING ACTIVITIES

Feb. 2017 - Apr. 2017

- Created an offline **Student Search** entirely in bash script and some mini-projects in python.
- Created a **Custom Linux System** with a final aim to get familiar with Linux Environment.
- Mid Semester project under Association of Computing Activities (ACA), IIT Kanpur.

Extracurricular Activity

Secretary PROGRAMMING CLUB, IIT KANPUR

Apr. 2017 - Present

Leader DEVELOPER STUDENT CLUB, IIT KANPUR

July 2017 - Present

Relevant Coursework

Introduction to Programming Discrete Mathematics (i) Logic in Computer Science (i)

i: In progress

Skills

Programming C/C++, Bash, Python, Golang, Javascript

Utilities Linux shell utilities, Git, Docker, Kubernetes, , GDB, \LaTeX , Vim

Operating Systems Arch Linux, Ubuntu

Miscellaneous

- Enthusiastic about Systems and always try to learn new stuff about Linux architecture, networking or security.
- Contribute to open source projects and maintain projects on Github.