Sagar Ghai | IIT Mandi

Male, 23

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EDUCATION

Computer Science, B.Tech	IIT Mandi	7.8/10	**Minor in Management**	2017
Class XII (CBSE Board)	Oxford Senior Secondary School	94.2%	**99% in CS, 95% in Maths**	2013
Class X (CBSE Board)	Oxford Senior Secondary School	10 CGPA	**100% in ALL Subjects**	2011

Technical Skills: Languages(C++, Java, Python), Technologies(Spring, Hibernate, Servlets,)

SCHOLASTIC ACHIEVEMENTS

Olympiads	• **Among top 6%** in **ZIO**-2012 & ZIO-2013. Qualified for **INOI.** • **International Rank 443** in the **final** round **out of top 5%** candidates of **IMO** (6th edition) • **Among top 15% (school rank 1)** in the 3rd International Mathematics Olympiad **(IMO)**	*2012* *2013* *2009*
Competitive Exams	• **AIR 2908 (top 2%, 1,50,000 candidates)** - IIT JEE Advanced • **National Level Bronze** medalist in Maths Talent Test, 2,00,000 participants. • **AIR 6048 (top 0.5%, 14,00,000 candidates)** - IIT JEE Mains	*2013* *2013* *2013*

WORK EXPERIENCE

Software Engineer, Nucleus Software Exports Ltd.	• Worked within the **framework** team to build highly **scalable** items. • **Created** and worked on **generic** items like dynamic menu and dynamic form. • Used J**ava**, S**pring** and **Hibernate.** • **Led** a small team of 6 to **win** the first intra Nucleus Hackathon.	Present
Teaching Assistant, IIT Mandi	• **Applied Database Practicum**	**Taught** and **Mentored** projects for a class of 40.	2016
	• **Data Mining	Taught** and **Mentored** a class of 30	2017

ACADEMIC PROJECTS

Streaming Based Distributed Genome sequencing	• Built a hybrid algorithm for **Distributed** genome sequencing on **Apache Flink**. • The optimised algorithm was **more accurate, time and memory efficient.** • A first of its kind streaming based genome sequencing algorithm.	*2016-17*
Big data Graph Analysis	• Implemented **Dijkstra's** algorithm for finding degree of separation using map-reduce framework that would work on **Apache Hadoop**. • Established the relevance of six degrees rule on Facebook's and Yahoo's data.	*2016*
Product Review Aggregator	• Built an aggregator for product reviews using adjective based classification. • Used **Python**, **NLTK** and **elastic search** for tagging and searching.	*2016*
Braille Interpretter	• A complete single piece device that could act as a reader for blind. • Used Arduino and electromagnets to automate the device. • Also enabled keyboard interface to allow for mass teaching purposes.	*2016*

POSITIONS OF RESPONSIBILITY

Coordinator	**E-Cell, IIT Mandi**	• **Co-Founded** the student body of Entrepreneurship Cell. • **Lead** and **Managed** small teams of 5 to organise events for the IIT Mandi ecosystem.	*2016-17*
Coordinator	**Tedx, IIT Mandi**	• **Responsible** for the overall organisation of the event. • Took charge of sponsorships and communications.	*2015-16*

Other Interests: Tech discoveries, Playing Football, Watching TV shows and reading books.