

SAURABH VERMA

Software Engineer
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AREAS OF INTEREST

Artificial Intelligence, Theoretical Computer Science & Business.

PUBLICATIONS

Usage Based Tag Enhancement of Images | Pacific-Asia Conference on Knowledge Discovery and Data Mining '17
Proposed an algorithm that analyzes the usage of an image from its accompanying textual content, extracts image-relevant tags in the accompanying text and enhances the tags around the image.

<https://saurrv.github.io/Publications/UsageBasedTagEnhancement.pdf>

EXPERIENCE

Software Engineer, Financial Systems | Uber Technologies, Inc. June 5, 2017 - Present
Contribute to the financial engineering platform responsible for bookkeeping of financial data at a scale of millions of trips per day.

Freelance Tutor | Chegg Tutors April, 2017 - Present
Tutored 100+ lessons, both live and written, consisting of various domains in Computer Science and several programming assignments.

Research Intern | Adobe Systems May 9 - July 22, 2016
Built a pipeline to enhance the tags of images in Python for better content management. The output tags were more informative, relevant to the image and diversified in comparison to state-of-the-art image tagging engines.

Summer Intern | Morgan Stanley May 11 - July 9, 2015
Built a platform to effectively manage the metadata, validate and trigger actions in JAVA using frameworks such as Spring, Quartz and Apache CXF.

ACADEMIC BACKGROUND

Qualification	Year	Institution	Grade
B.Tech. Computer Science	2013-17	Indian Institute of Technology Roorkee	8.982
Higher Secondary (12 th)	2012-13	Bal Bharati Public School	90.8%
High School (10 th)	2010-11	Bal Bharati Public School	10.0

PROJECTS

Algorithm Library Dec 2013 - May 2017
Implementations of most commonly used Algorithms and Data Structures in Algorithmic Programming Contests. Coming from regular participation in programming contests that test knowledge of data structures and algorithms.

Solved **700+** problems on programming websites like [Codeforces](#), [Topcoder](#), [Hackerrank](#), [Spoj](#), [Codechef](#) etc. <https://github.com/saurabhvermaaaa/Algorithm-Library>

SIC Disassembler

Feb - Mar 2015

Programmed a disassembler for Simplified Instructional Computer in C++ which supported jump, arithmetic, logical, memory instructions and indexed addressing. <https://github.com/saurabhvermaaaa/SIC-Disassembler>

SKILLS

- **Programming Languages** : C++, Golang, JAVA, Python, Haskell and Bash.
- **Platforms & Software Packages**: Linux/Unix, LaTeX, Tensorflow.

ACHIEVEMENTS

- **ACM ICPC 2015-16**: Ranked **4th** among 1572 teams in Amritapuri regional online and **2nd** among 1112 teams in Chennai regional online contest of the International Collegiate Programming Contest (ICPC).
- **Topcoder Collegiate Contest 2016**: Ranked **2nd** in Topcoder Collegiate Contest India 2016 online round and **5th** in onsite round. It is an algorithmic programming contest open to all university students in India.
- **Amrita Summer Camp 2015** : Selected in top **25** students all over India for participating in Amrita Summer Camp 2015 held with the objective to train students in advanced algorithms and data structures required in international competitions.
- **Build The Shield 2016** : Finished **24th** in Attack Defense CTF and **25th** in Jeopardy style CTF all over the country in Build The Shield organized by **Microsoft**.
- **Kishore Vaigyanik Protsahan Yojana (KVPY)** : Got selected in the SX Stream in 2012-13 batch with **AIR 254**. It is a National Program of Fellowship in Basic Sciences, initiated and funded by the Government of India to support young talented scientists.
- **Joint Entrance Exam 2013** : Ranked **742** in JEE Advanced out of 1,400,000+ candidates. It is an entrance examination conducted for admission in various engineering courses in the top institutes of the country.
- Scored **120/120** in JEE Mains Mathematics Section.
- Bhaskar Genius Scholarship Award 2011 for ranking **3rd** in states of Madhya Pradesh and Chhattisgarh.
- Recipient of Gold Medal for academic excellence in school for standing **first** for 6+ consecutive years.

POSITIONS OF RESPONSIBILITY

- **Programming and Algorithms Group** <https://pag.sdslabs.co/>
 - Organized and curated problems for international and intra-college programming competitions.
 - Gave lectures on data structures and algorithms.

PERSONAL DETAILS

- **Languages** : English, Hindi, French and Punjabi.
- **Hobbies** : Fitness, Football, Travelling and Writing.