

Prasad Kshirsagar

Computer Science & Engineering
Indian Institute of Technology, Ropar
UG Second Year
2016CSB1041

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Academic Qualifications

Examination	University	Institute	Year	CPI/%
Graduation	IIT Ropar	IIT Ropar	2016-Present	8.29/10
Intermediate/+2	HSC Maharashtra	Vasantrao Naik College, Aurangabad	2015-2016	86.67%
Matriculation	SSC Maharashtra	Yogeshwari Vidyalaya, Ambajogai	2013-2014	97.80%

Scholastic Achievements

- **All India Rank 1570** in *JEE Advanced 2016* among the 2 Lakh shortlisted candidates.
- Secured **All India Rank 11** in *Indian Institute for Studies in Mathematics (IISMA 2013)*.
- Among the **top 0.3%** of the 1.5 million applicants in **JEE Mains 2016**.
- Awarded **Certificate Of Merit and Gold Medal** in *National Science Talent Search Examination*(NSTSE 2014) for having **institute and City Rank 1**.
- Secured **State Rank 5** in *Maharashtra Talent Search Examination MTSE(2014)* conducted by Wadia College, Pune and Government of Maharashtra.
- Secured **Rank 21** in *Maharashtra Common Entrance Test (MHTCET 2016)* conducted by Government of Maharashtra.

Internship Experience

- **Web Development Intern, UVSofts Technologies.** (July'17- August'17)
Mentor: Er. Sanjeev Soni, Head of Development Department.
 - Designed and modified the responsive website of the company.
 - Designed the database schema from scratch and used MySQL as backend database.
 - Learned the prototype languages like javascript, php and successfully used them to build the site.

Key Projects

- **Secure User Authentication** (June 2017)
 - Created an application using C which creates a **database containing "usernames" and "keys" which were created by the corresponding password**.
 - Passwords are converted into a set of numbers using the ASCII values of alphabets of the string and those set of numbers were stored in the database as "keys".
 - Even in case if someone has the database, he/she **wont be able to crack the password out of it**.
- **SIMD Coprocessor** (March 2017)
Guide: Prof. Neeraj Goel, Department of Computer Science.
 - Designed a Coprocessor with the addition of instructions in the **Simple Risc Simulator**.
 - Constructed it in such a way that it can run parallelly with the main processor without disturbing the instructions of main processor.
 - Added **pipelining** to make it more efficient in terms of cycles.
- **Cache Design** (October 2017)
Guide: Prof. Neeraj Goel, Department of Computer Science.
 - Implemented 8KB sized cache containing **main level(L1)** along with other **sublevels(L2,L3)** .
 - Analyzed the number of **hits, misses** and **writebacks** on a large chunk of data.
 - Studied the various aspects of fast memory action.
- **Home Automation** (November 2017)
Guide: Prof. Rohit Sharma, Department of Electrical Engineering.
 - Designed an online platform to control electrical appliances remotely.
 - Achieved this by using ethernet shield on Arduino Uno.

Technical Skills

- **Computer Languages/Scripts:** C, C++, Python, HTML5, CSS3, JAVA, JavaScript, PHP, MYSQL, XML.
- **Operating Systems:** Linux(Ubuntu), Windows.
- **Version Control:** GitHub.
- **Tools:** MATLAB, Eclipse, LATEX, NetBeans IDE, Adobe Photoshop.

Relevant CourseWork

- Data Structures, Computer Architecture, Discrete Mathematics, Real Analysis, Programming Paradigms and Pragmatics, Digital Electronics, Quantum Physics, Linear Algebra, Fuzzy Logic, Probability Theory.
- Algorithmic Toolbox (Coursera), Algorithms 1 (Coursera), Machine Learning (Coursera), JavaScript Basics (Udacity), Introduction to HTML and CSS (Coursera).

Extra-Curricular Activities

- **Start-up:** Currently working on my own start-up which will help people get vehicles on rent for very cheap prices.
- **Web-Designing:** Designed three **official websites of IIT Ropar**, March17 - April17.
- Won **BrainVista** (a puzzling competition) in the event during **ZeitGeist**, Cultural fest of IIT ROPAR.
- **Runner up** in Inter-Hostel Chess Tournament(2016) at IIT ROPAR.
- **Strengths:** Good Teamwork, Good Communication Skills, Like To Learn New Topics, Logical Approach, Optimism.