

## SCHOLASTIC ACHIEVEMENTS

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- Secured All India **17<sup>th</sup>** rank in **IIT Joint Entrance Examination** out of around 520,000 students. 2011
- Qualified for **ACM Inter Collegiate Programming Contest** Worldfinals. 2014
- Secured All India **324<sup>th</sup>** rank out of more than 1,100,000 students appearing in All India Engineering Entrance Examination. 2011
- Secured **54<sup>th</sup>** rank in Vellore Institute of Technology entrance examination. 2011
- Secured **166<sup>th</sup>** rank in **ISAT** conducted by Indian Institute of Space Science and Technology. 2011
- Secured State Rank **276** in Engineering Agricultural and Medical Common Entrance Test, Andhra Pradesh out of 3,00,000 students. 2011
- Awarded **KVPY** scholarship — Highest scholarship given by government of India at undergraduate level for promoting science education and research. 2011

## WORK EXPERIENCE

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| <b>pre-pg.com</b><br><i>Freelancer</i>   | Feb 2018 - Present<br><i>Remote</i>     |
| <ul style="list-style-type: none"><li>• Wrote a major feature using <b>C#</b>.</li><li>• Wrote API for the feature using <b>MongoDb</b> as the database.</li><li>• Wrote both back-end and front-end code.</li></ul>   |   |
| <b>Quant One</b><br><i>Quantitative trading</i>  | March 2017 - Oct 2017<br><i>Kolkata</i> |
| <ul style="list-style-type: none"><li>• Developed a quantitative trading strategy on the Long side.</li><li>• Used data from options market to derive sentiment about a particular stock.</li><li>• Backtested a number of strategies and analysed the results</li></ul>     |   |
| <b>Crowdfire</b><br><i>Backend Engineer</i>  | June 2016 - Nov 2016<br><i>Mumbai</i>   |
| <ul style="list-style-type: none"><li>• Wrote a microservice from scratch in <b>Go lang</b> that went into production.</li><li>• Improved their task scheduling, working with <b>Java</b> code.</li><li>• Squashed a lot of bugs in their <b>Nodejs</b> code base.</li></ul> |   |
| <b>Chronus</b><br><i>Software Engineering Intern</i>   | Summer 2014<br><i>Chennai</i>           |
| <ul style="list-style-type: none"><li>• Worked on integrating Chronus Mentor platform with Salesforce.</li><li>• Worked on improving the interface and usability of their application</li></ul>  |   |
| <b>General Electric</b><br><i>Software Engineering Intern</i>  | Summer 2013<br><i>Bangalore</i>         |
| <ul style="list-style-type: none"><li>• Helped in tuning performance of their code used for Data Analysis</li><li>• Created Wiki-style Documentation for their Data Analysis tools</li></ul>   |   |

## TECHNICAL AND PROGRAMMING SKILLS

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**Programming Languages** — C++, C#, C, Java, Python, JavaScript, Ruby, Racket, SQL, Assembly (MIPS).

**Web Application Frameworks** – Nodejs, Ruby on Rails

## PROJECTS

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### Artificial Intelligence

*Prof. Pushpak Bhattacharya*

Feb'14 - Apr'14

CSE, IIT Bombay

- Presented a seminar after conducting a literature survey on robotic soccer
- Implemented feed forward neural networks with back propagation and used it for sentiment analysis over twitter feeds and various test data.
- Implemented  $A^*$  algorithm to solve 8-puzzles problem. Implemented bi-directional search and compared different heuristics.

### cfglp

*Prof. Uday Khedker*

Feb'14 - Apr'14

CSE, IIT Bombay

- Built a language processor (both interpreter and compiler variants) for the control flow graphs generated from programs written in a subset of C.
- Implemented optimal register allocation, error handling, avoiding redundant jumps and other optimisations.

### MiniFB

*Prof. Umesh Bellur*

Sep '13 - Nov '13

CSE, IIT Bombay

- Created a website similar to Facebook.
- Implemented various features like friend requests, messaging, blocking, search, moderating etc.
- Used java server pages for the front-end, PostgreSQL for the back-end and JDBC for communicating with the database.

### Implementation of Virtual Memory

*Prof. D.M.Dhamdhare*

Feb'14 - Mar'14

CSE, IIT Bombay

- Implemented Virtual Memory System for Pranali Guest OS.
- Handled issues like memory allocation, swap space management, page replacement policy, page faults etc.

### Rube Goldberg Machine

*Prof. Parag Chaudhuri*

Feb'13 - Mar'13

CSE, IIT Bombay

- Wrote a rube Goldberg machine simulation in Cplusplus.
- Used Box2D library for handling interactions between different objects in the machine.

### MyLynx

*Prof. Varsha Apte*

Oct '12 - Nov '12

CSE, IIT Bombay

- A command line web browser written in Cplusplus.
- Used Data Mining to extract the main content from a web page removing ads and other unwanted information.

### PacMan

*Prof. Amitabha Sanyal*

Mar '12 - Apr '12

CSE, IIT Bombay

- Developed pacman game in racket.
- Implemented different features like multiple maze designs, game levels and intelligent code for Ghost movement.