Jon Snow

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EDUCATION

- **Indian Institute of Technology, Kharagpur** — Kharagpur, India
  5 year Integrated Masters in Mathematics and Computing; GPA: 6.41 — *July. 2014 – present*

- **Dharampeth Science College** — Nagpur, India
  Higher Secondary School Certificate; 87.9% — *2014*

- **Montfort Higher Secondary School Ballarpur** — Ballarpur, India
  All India Senior School Certificate Examination; GPA 10.0 — *2012*

EXPERIENCE

- **University of Science, Malaysia** — Penang, Malaysia
  Undergraduate Researcher — *May 2017 - June 2017*
  - **Moufang Loops**: Simplified the proof of equivalence of Moufang Identities by extensively applying the concepts of Modern Algebra and Permutation the known proof was cumbersome and required the knowledge of autotopism
  - **Application of programming in Abstract Algebra**: Used SACK in Python, a command-line program for doing elementary computations on small finite groups and printing their cayley tables
  - **Nonassociativitite loops** : Proved that there is no non-associative loop having order less than 5 with the help of SACK :- Simple Abstract Algebra Calculator in Python

- **Mathminers** — Mumbai, India
  Remote Data Science Intern — *Dec 2016*
  - **Drone and Quad-copter Analysis**: Extensively involved the use of the openCV library in python for detecting, locating and finding the optimum path for reaching the targets
  - **Contour Properties**: Leveraged the use of contour properties of different shapes which helped in saving the training of complicated machine learning models
  - **Video Enhancement Techniques** : Applied the video enhancement techniques to highlight the details which are obscured involving changing brightness and color contrast

- **Hackerearth** — Bangalore, India
  Market Analysis Intern — *May 2016 - July 2016*
  - **SanFrancisco Slash Hack**: Prepared status reports and proposed new business strategies for /hack which witnessed over 900 developers and keynote speakers
  - **Relationship Management**: Boosted the number of Out bond calls by helping the manager to identify active partners partners with good business potential

PROGRAMMING SKILLS

- **Languages**: Python, C, C++, Java   **Libraries**: OpenCV, Scikit-learn, Matplotlib, Numpy, Scipy

- **Database**: MySQL   **Softwares**: Microsoft Office, Adobe Suite, MATLAB, GIT

COURSEWORK INFORMATION

- **Computer Science**: Programming and Data Structures, Systems Programming, Design and Analysis of Algorithms, Object Oriented Systems Design, Switching and Finite Automata, Theory of Compiler Design,
- **Mathematics**: Linear Algebra, Modern Algebra, Operations Research, Probability and Statistics, Measure Theory, Real Analysis, Functional Analysis, Mathematical Methods

PROJECTS

- **Movie Recommendation Engine**: Developed a movie recommendation engine in Python using popular collaborative ltering techniques Primarily based on the research done on Single Value Decomposition method during the Netfix Prize competition Implemented and tested other machine learning techniques like Baseline predictor and k-Nearest Neighbor Model
- **Information Extraction from news articles**: Statistically Analyzed Sentences from the knowledge base and identified the relation being described using keywords and Assigned confidence scores to country number pairs using Gaussian distribution