MD NEHAL AMIN

5th Year Undergraduate student, M.Sc. integrated "Mathematics and Computing" course, IIT Kharagpur
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EDUCATIONAL PROFILE

Year	Degree	Institute/School	CGPA/ %
2011 - Till Date	Int. M. Sc.	Indian Institute of Technology, Kharagpur	7.86(out of 10)
2010	AISSCE	Bijendra Public School	84.80%
2008	AISSE	Millia Convent English School	89.80%

INTERNSHIPS/PROJECTS

Product Development Internship, Shine.com (HT Media Limited)   [2015]

- Got **Pre-placement Offer** from **HT Media Limited**
- Software development oriented internship primarily focused on **Web Application Development**
- Extensive use of python based Web Frameworks, namely **Django** for designing "**Generic Crawler**" for scraping all web sites of relevance to the organisation using one code
- Created a crawler testing interface for making crawled data homogeneous
- Built an automated system which directly adds crawler to the back-end
- Developed a **moderator interface** for filtering out irrelevant data from raw crawled data
- Comprehensive use of DBMS primarily focusing on non-relational databases like **MongoDB** and relational database like MySQL
- Front-end development using Twitter-Bootstrap, HTML, CSS and JavaScript
- Development of search feature using Mongo-Search with auto-completion and auto-suggestion feature
- **Speeding up** of **Data Analytics Repository** by **2000%**

Design and Development of Online Tutor Service, Department of **Mathematics** at **Indian Institute of Technology Kharagpur**   [2015]

- **Integrated M.Sc. Project**(Web Application Development) under the guidance of **Prof. Dharmendra Kumar Gupta**
- **Back-end Development** using **Python/Django** and **Front-end development** using **Bootstrap**, **HTML**, **JavaScript** and **CSS**

Summer Internship, Department of **Computer Science** at **Indian Institute of Technology Kharagpur**   [2014]

- Developed an android background application which creates a shortcut of frequently used applications
- Created a sorted list of foreground running application on the basis of its frequency and duration of usage

Summer Internship, Department of **Computer Science** at **Indian Institute of Technology Guwahati**   [2013]

- Internship project was based on **Computational Biology**
- Topic was "**Inferring high-confidence human protein-protein interaction**" under **Professor Dr. Ashish Anand**
- Used unsupervised statistical approach to score and rank a set of diverse, experimentally identified Protein-Protein Interactions

Social Internship on Education Scenario, IITians for Youth   [2012]

- It was a 20 days trip of investigation and social awareness, in association of Bihar (state) police, it was funded by Central government, India

Univect services   [2011-12]

- Univect Services is a web-based education sector service (an IIT Kharagpur start-up) wherein as an intern, I looked into the designing, publicity and the presentations of its workshops

ACADEMIC ACHIEVEMENTS

- Secured an **All India Rank 2731, top 0.5%, out of 500,000 students** that appeared for prestigious **IIT JEE 2011**
- Was amongst **top 0.27%, out of 1,200,000 students** that appeared for **AIEEE 2011, State Rank 38, A.I.R. 3343**
- Secured an All India Rank **298**, top 0.1%, in **ISAT (Indian Institute if Space Science and Technology) 2011**
- Awarded **Certificate of Excellence** for being in the **top 0.1% students** appeared in AISSE (class X) in **Mathematics**
- Recipient of dignified **INSPIRE(Innovation In Science Pursuit For Inspire Research) Scholarship** given only to meritorious M.Sc. Students whose All India Rank is under 10,000 in AIEEE or IITJEE at Undergraduate Level

SKILLS

- **Programming Languages** – **C**, **C++**, **Python**, MongoDB, Mongo-Engine, Java, Bootstrap, HTML, JavaScript, MATLAB and MySQL
- **Web Application Development(Django)** and Android Application Development
- **Operating Systems** – Linux and Windows
- **Tools** – **Django**, MS-Office, Adobe, Photoshop, Latex, Eclipse and Net beans

POSITIONS OF RESPONSIBILITY

- **Vice-Captain,** R.K. Hall Hockey team   [2013-14]
  - Won bronze medal in Inter-Hall hockey tournament 2013-14
- **Member of Spring Fest (one of the India's largest cultural fest) Design Team**   [2012-13]
  - Designed posters, banners and arena of Spring Fest 2013
- **Finance Head in Utsav Organising committee**   [2012-13]
  - Conducted cultural and sports festival named "Utsav" in Purnea, Bihar in the month of December 2012 and 2013

EXTRA-CURRICULAR ACTIVITIES

- **Fine Arts Team Member,** Radha Krishnan Hall of Residence
- Member of silver (2012-13) winning **Inter-Hall cricket team**
- Member of gold (2012-13) and bronze (2013-14) winning **Inter-Hall hockey team**