Ragib Mostofa

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Education

Rice University **Houston, TX**

Computer Science, CS (B.A.)
Computational and Applied Mathematics, CAAM (B.A.) *2015–2019*

- Priority Applicant
- One of 20 international students in the class of 2019 to be awarded the ***Allen Insurance Scholarship, Chao Fund International Scholarship*** and ***Rice Tuition Grant for Internationals,*** which covers tuition and living expenses for the academic year 2016-2017.
- Rice Annual Fund Scholar

International Turkish Hope School **Dhaka, Bangladesh**

2011-2015

- Daily Star Awards, Bangladesh 2014
  - National Valedictorian Award (Highest number of A*s in Edexcel International General Certificate for Secondary Education)
  - World's Highest Score in Mathematics (Specification A)
  - Country's Highest Score in Mathematics (Specification B)
- International Advanced Level 2015
  - 2 A* and 4 A
  - A* in Mathematics and Further Mathematics
- SAT Reasoning Test: 2260/2400
  - Critical Reading – 680/800
  - Writing – 780/800
  - Math – 800/800
- SAT Subject Tests:
  - Math Level II – 800/800
  - Physics – 800/800
  - Chemistry – 800/800

Relevant Coursework

- **Fall 2015 (16 credit hours):**
  - **CAAM 210** – Introduction to Computational Engineering
  - **COMP 160** – An Introduction to Interactive Programming in Python
  - **MATH 211** – Ordinary Differential Equations
  - **PSYC 101** – Introduction to Psychology
  - **FWIS 108 –** Graphic Novels and The Art of Communication

- **Spring 2016 (18 credit hours):**
  - COMP 130 – Elements of Algorithms and Computer Science
  - COMP 182 – Introduction to Algorithmic Thinking
  - ELEC 220 – Fundamentals of Computer Engineering
  - CAAM 336 – Differential Equations in Science and Engineering
  - BUSI 305 – Financial Accounting
- **Fall 2016 (18 credit hours):**
  - COMP 330 – Data Science Tools and Models
  - COMP 326 – Digital Logic
  - CAAM 378 – Introduction to Operations Research and Optimization
  - CAAM 453 – Numerical Analysis I
  - CAAM 519 – Computational Science I
  - MATH 354 – Honors Linear Algebra

Skills

- **Microsoft Office**: Word, Excel, PowerPoint
- **Programming**: Proficient in Java, C, Python, MATLAB, PHP, Swift
- **CS Areas of Expertise**: Data Science, Machine Learning, Natural Language Processing, Language Models
- **Bilingual** in English and Bangla

Work Experience

- **Software Developer Externship at Labatt Foods** *Jan. 2015*
- **Data Science Research Intern – Two Sigma Investments** *May 2016 – August 2016*
  - **Research Topic:** Text-based Financial Prediction Models
  - Used natural language processing techniques and machine learning algorithms to train the machine to predict stock market movements based on financial news

Extracurricular

Rice University Trading Club *April 2016-Present*

A recently founded club that aims to connect Rice students with hedge funds and provide opportunities in the trading industry

- Webmaster (April 2016 - Present)
- Technical Vice President (August 2016 - Present)

Rice Computer Science Club Member *Sept. 2015-Present*

A student-run organization that organizes hackathons and programming competitions and arranges job/internship opportunities for CS students all over campus

Rice Institute of Electrical and Electronics Engineers – Student Member *Sept. 2015-Present*

A student-run organization that and arranges job/internship opportunities for Computer Science and Electrical Engineering students all over campus

- Participated in the IEEE Xtreme 9.0 Programming Competition. Team was placed 76th out of about 200 teams all over USA

Honors & Awards

- **4th Annual UChicago Midwest Trading Competition**

  - Devised, implemented and backtested various trading algorithms, including financial time series (Auto Regressive Model) in Java for 3 different cases of 3 rounds each.
  - Won 1st place on Case II: Algorithmic Sales and Trading Case.
  - Won 1st place on first round of Case III: Options Market-Making Case.
  - Placed 9th out of 25 different teams from at least 20 different universities.
  - GitHub Links:
    - Implementation of the Auto-Regressive Model of configurable order in Java: https://github.com/ranganmostofa/Auto-Regressive-Model/blob/master/Auto-Regressive%20Model