Aarushi Parashar

✉ aarushi.parashar@gmail.com   ☎ (+1) 609-865-8620   in linkedin.com/in/aarushi-parashar/

Highly motivated and analytical undergraduate in Computer Science passionate about developing innovative technology solutions

Education

Cornell University College of Engineering– G.P.A 3.88 | Dean's List   **August'18 – May'22, Ithaca, NY**
B.S. Computer Science with Minor in Applied Mathematics and Operations Research and Management Science

Relevant Coursework – Machine Learning for Intelligent Systems, Introduction to Analysis of Algorithms, Object Oriented Programming and Data Structures, Discrete Structures, Linear Algebra for Engineers, Engineering Probability and Statistics, Data Structures and Functional Programming.

Teaching Assistant - Machine Learning for Data Science   **January'20 – Present**
Academic Excellence Workshop Facilitator – Differential Equations for Engineers   **January'20 – Present**

WW-P High School North – G.P.A. 3.90 | National Honors Society   **September'14 – June'18, Plainsboro, NJ**

Experience

Undergraduate Researcher • Claire Cardie's Group   **Ithaca, NY • October'19 – Present • cs.cornell.edu/home/cardie/**
- Collaborating with Professor Claire Cardie to design generative neural networks for producing arguments.
- Training ethos, logos and pathos classifiers to evaluate arguments on persuasiveness and relevance to debate topic.

Research Intern • IBM   **Yorktown Heights, NY • May'19 – August'19 • ibm.com**
- Developed neural network models (i.e. Stacking Generalization Ensemble Learning with Feedforward Networks, CNN, LSTM) to determine if a small molecule will fit within a given protein binding site or pocket using TensorFlow.
- Ideated and promoted additional neural network theoretical research beyond intern projects, garnering feedback from domain experts in the Watson Laboratory.

Autonomy Testing Lead • Cornell Mars Rover (CMR)   **Ithaca, NY • October'18 – Present • marsrover.engineering.cornell.edu**
- Designed & integrated RQT plugin (C++) with Computer Vision system to enhance rover's autonomous functionality.
- Implemented a Mock GPS system using Node framework for testing autonomy.
- Using Agile Development Techniques i.e. JIRA, Confluence for efficient team management of up to 50 people.

Summer Intern • Larsen & Toubro (L&T)   **Iselin, NJ • August'17 – September'17 • lntinfotech.com**
- Designed & developed application module to predict shipping delays using Java, Oracle, Cloudera etc.
- Implemented and integrated a variation of K-Nearest Neighbor Algorithm to increase prediction accuracy.
- Evaluated correlation on company's credibility and customer retention.

Founder & Director • Unbounded Futures   **Princeton, NJ • April'15 – Present • unboundedfutures.org**
- Responsible for incorporating 501c, raising funds, managing finance, meeting regulatory requirements and speaking at corporate & social events to increase awareness. Supporting 200+ kids across 3 different schools.
- Developed and maintaining a digital presence, integrated web portal to payment platforms.

Projects

Drive Off – Developed an app using Java that prevents fatalities due to distracted driving by disabling the phone
UNO – Created a command line game using OCaml simulating the classic Card Game Uno

Skills

Programming: JavaScript, Java, Python, OCaml, C, C++, Bash, Coq, HTML5, R, CSS
Software: Linux, LaTeX, Docker, Kubernetes, Oracle, Cloudera – Spark, Hive, SOLR
General: Design Thinking, Team Leadership, Conflict Resolution, Fluent in Hindi & French

Activities

Mixed Martial Arts (MMA) - High Brown Belt   **Society of India -** Public Relations Chair
Society of Women Engineers – Alumni Relations Committee   **Fencing -** Girls Foil Squad Captain