MEHUL AGARWAL

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EDUCATION

School of Computer Science, Carnegie Mellon University, Pittsburgh, PA
2019 to Current
BS Computer Science 2023
GPA: 3.63

Sanskriti School, New Delhi, India
2016 to 2019
Grade 12 - 93.2%

RESEARCH

RESOURCE-SHARING USING CAP & TRADE AND BLOCKCHAIN
2019 to Current
Carnegie Mellon University
The research explores a "Cap and Trade" scheme using distributed ledgers and tokenization on the blockchain. It envisions "Cap and Trade" as a universal strategy to share resources in different domains among users fairly and optimally.

BLOCKCHAIN IN AADHAAR
2017 to 2018
Unique Identification Authority of India (UIDAI)
Worked in the authentication of Aadhaar – the biometric citizen identity issued by Govt. of India
Authored an independent research paper on incorporating Blockchain in Aadhaar

WORK EXPERIENCE

CENTER FOR ADVANCED RESEARCH IN IMAGING, NEUROSCIENCE & GENOMICS (CARING)
New Delhi, India
May 2020 to Aug. 2020
Research Intern
- Developing a in-browser text detection algorithm to identify and eliminate sensitive user data in ultrasound images and CT scans.
- The model was built using Tensorflow, OpenCV and Tesseract in Javascript and optimized for in-browser space constraints.

SPECCASA GLOBAL EYEWEAR
New Delhi, India
2018 to 2020
Co-founder
- Co-founded a B2B e-Commerce portal for eyeglasses and disrupted the supply chain to connect eyeglass manufacturers directly to consumers
- Developed a scalable business model to make eyeglasses affordable & accessible in tier 2 and 3 cities of India

WORLD HEALTH ORGANIZATION
Geneva, Switzerland
Nov. 2017 to Jan. 2018
Volunteer
- Worked full-time on planning, capacity building and software development for a name-based, real-time disease surveillance platform
- Studied existing digital health platforms and worked towards creating a platform to monitor 33 epidemic-prone diseases for the Indian Government

UNIVERSITY OF CHICAGO - INDIA INNOVATION CENTER W/ NITI AAYOG
New Delhi, India
June 2018 to Aug. 2018
Research Intern
- Researched use of Natural Language Processing (NLP) for 18 Indian vernacular languages
- Contributed to the development of BHARAT NLP - foundational architecture for regional natural language processing in India

HARVARD T.H. CHAN SCHOOL OF PUBLIC HEALTH - INDIA RESEARCH CENTER
Mumbai, India
May 2018 to June 2018
Lead Volunteer
- Researched communication strategy for 'Jan Andolan' (people's movement) to implement the National Nutrition Mission in the state of Maharashtra, India
- Created an Action Plan to tackle child malnutrition with a focus on child stunting, complimentary feeding, behavior change communication and nutrition seeking behaviors.

LEADERSHIP

FOUNDER - ZOOM MEMES FOR SELF QUARANTEENS
2020 to Current
- Founded Facebook group "Zoom Memes for Self Quaranteens" with 700,000+ members
- Raised $4400+ for Center for Disaster Philanthropy - COVID-19 Relief Fund

VICE PRESIDENT, IT CLUB, SANSKRITI SCHOOL
2016 to 2018
- Led teams in inter-school IT competitions across India ranging from Web Development, Design and Competitive Programming
- Organized the inter-school IT symposium 'ProjectBeta 2.0' in August 2018

VOLUNTEER, EYEQ FOUNDATION
2016 to 2018
- Organized eye camps in slum areas around Delhi
- Followed up with cataract patients for post-operative care on monthly basis

TEAM LEADER, TIE- THE YOUNG ENTREPRENEURS
2016 to 2017
- Participated in an entrepreneurship development program to empower the next generation of entrepreneurs
- Developed and pitched 'GoalKick' - a goalkeeping and scheduling mobile platform to leading Indian entrepreneurs

AWARDS

Sanskriti School, New Delhi · SARVOCH PURASKAR FOR ACADEMIC EXCELLENCE

Delhi Public School, Hyderabad · SCHOLAR BLAZER FOR EXCELLENCE IN ACADEMICS

SKILLS

COURSEWORK: 07-180 Concepts in Artificial Intelligence, 21-241 Matrices & Linear Transformations, 15-251 Great Theoretical Ideas in Computer Science, 15-150 Principles of Functional Programming, 15-122 Principles of Imperative Computation
PROGRAMMING: Python, C, C++, SML, Java, Javascript, Tensorflow
GRAPHIC DESIGN: Adobe Photoshop, Adobe Illustrator