MO TIWARI
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(415) 234 - 3187
U. S. Citizen Stanford, CA

EDUCATION:

Stanford University, Stanford, CA 2017 – Present
Ph.D. in Computer Science
Advisor: Sebastian Thrun
Research Focus: Artificial Intelligence and Machine Learning

M.S. in Computer Science (completed during Ph.D. program) ***GPA: 4.2*** June 2019

Relevant Coursework:
CS 221 – Artificial Intelligence
CS 229 – Machine Learning
CS 228 – Probabilistic Graphical Models
CS 168 – The Modern Algorithmic Toolbox

California Institute of Technology, Pasadena, CA Sept 2010 – June 2013
Cumulative GPA: 4.0+ – ***Top 5% of Graduating Class***

B.S. in Physics with Honors ***GPA: 4.0+*** June 2013
B.S. in Mathematics with Honors ***GPA: 4.0+*** June 2013

Columbia University – **Columbia College**, New York, NY ***GPA: 4.0+*** 2009 – 2010

EXPERIENCE:

SOFTWARE ENGINEER, TECHNICAL LEAD – FACEBOOK, INC. 2015 – 2017

- Technical lead of the 4-person team building ThreatExchange (fb.me/TX), Facebook's platform for sharing cybersecurity information
- Led product and feature development through 5 major releases that grew the number of enterprise customers from 92 to 500+
- Managed 3 interns who received and accepted fulltime offers

SECURITY RESEARCH SCIENTIST – EXPANSE, INC. 2014 – 2015
Note: Expanse, Inc. was previously known as Qadium, Inc.

- Performed the first systematic, continuous, and Internet-scale capture and analysis of device data and security vulnerabilities
- Built backend and frontend infrastructure to help analysts understand terabytes of prostitution advertisements and uncover human trafficking
- Work indirectly led to dozens of arrests of traffickers and hundreds of victims saved

RESEARCHER – **DRW TRADING GROUP** Summer 2013

- Supported the highest-performing traders with quantitative research
- Created valuation models for various financial instruments, such as interest rate swaps and swaptions

RESEARCHER - *Undergraduate Research Fellowship*
John Preskill Group at California Institute of Technology 2011 – 2012

- Proved that a certain class of quantum systems would never function as a form of quantum storage, eliminating their viability in a quantum computer
- Advised by Prof. John Preskill, Dr. Spiros Michalakis, Dr. Jeongwan Haah

RESEARCHER - *I. I. Rabi Fellowship for Summer Research*
LHC (Large Hadron Collider), Geneva, Switzerland Summer 2010

- Analyzed some of the first data ever from the Compact Muon Solenoid (CMS) experiment at the LHC in Geneva, Switzerland, where the Higgs Boson was later discovered
- Found and corrected experimental defects, by analyzing Missing Transverse Energy, to calibrate the experimental setups
- Later received admission to the Ph.D. program in Physics at MIT to continue research on this experiment

RESEARCHER
Yorktown High School, Yorktown Heights, NY 2007 – 2009

- Developed an assistive aid to help patients with physical disabilities complete exercises
- Patients' exercise completion rate rose 80%, a statistically significant amount, and shortened recovery time by 34%
- Won 3rd place in category internationally at Intel ISEF 2009

PUBLICATIONS:

1. **Estimating Global Patterns in Learning Quality Using Google Search Trends**
   Serhat Arslan, Mo Tiwari, Christopher Piech. ACM Learning @ Scale 2020.

ACADEMIC HONORS

- Oak Ridge Institute for Science and Education (ORISE) Fellowship 2019
- UnifyID Fellow (Declined) 2018
- Pear VC Fellow 2017 – Present
- NSF Graduate Research Fellowship Program Honorable Mention 2013
- Caltech SURF - Summer Undergraduate Research Fellowship 2011 – 2012
- IBM T.J. Watson Memorial Scholarship 2009 – 2012
- Caltech - San Pietro Travel Prize Recipient 2011
- I. I. Rabi Fellow at Columbia University 2009 – 2010
- Intel International Science and Engineering Fair (ISEF) - Third place 2009