

Sandesh Timilsina

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Education

Bachelor of Science in Computer Science and Mathematics

Expected Dec 2020

The University of New Mexico (UNM), Albuquerque, NM

GPA 3.89

Skills & Abilities

COMPUTER SKILLS

- Proficient in Java, C, Linux, Python, Haskell, HTML, CSS, JavaScript.
- Proficient in Microsoft Word, Excel, Acrobat, and Powerpoint
- Project completed using Java: Online Bank and Auction House(using sockets), Scrabble, Dominos, and NewyorkTimes Tile.
- Personal Website: www.sandesht.com
- <https://github.com/sandesh139>

Professional Experience

UNDERGRADUATE RESEARCH ASSISTANT | CENTER FOR HIGH TECHNOLOGY MATERIAL, UNIVERSITY OF NEW MEXICO | AUGUST 2019- CURRENT

- Evaluated the scaling behavior of Anderson localization in an off-diagonally disordered random network (nearest neighbor coupling Hamiltonian) using random matrices.
- Calculated the eigenvectors of ultra-large random matrices and evaluated two different localization metrics on the eigenvectors to calculate the probability density function of network localization.
- Focused on optimizing algorithms to achieve the best efficiency and address memory issues in a large-scale linear algebra problem.
- The work was partially supported by grants from DoD, ARO and NSF.

STUDENT TECHNICAL ASSISTANT | CENTER FOR HIGH TECHNOLOGY MATERIAL, UNIVERSITY OF NEW MEXICO | JANUARY 2020- CURRENT

- Updated C scripts monitoring Symantec backup to adapt to a new Veritas system by reviewing logs and performing validation checks.
- Performed automated system monitoring using Nagios and fixed systems, services and hardware alerts.

TUTOR | CENTER FOR ACADEMIC PROGRAM SUPPORT, UNIVERSITY OF NEW MEXICO| JANUARY 2019 – JANUARY 2020

- Tutored General Physics, Numerical Computing, Statistics, Ordinary Differential Equations, linear Algebra, and Calculus.
- Developed critical thinking and problem-solving skills while approaching the challenging questions brought by the students.
- Enhanced communication skills through weekly-training and tutoring experiences.
- Gained time management and customer service skills from training and experience.

CASHIER| SUBWAY, UNIVERSITY OF NEW MEXICO| SEPTEMBER 2018- DECEMBER 2018

- Developed time management, customer service, and teamwork skills.

VOLUNTEER | NEPAL STUDY CENTER, UNIVERSITY OF NEW MEXICO| AUGUST 2018-DECEMBER 2018

- Participated in discussions regarding use of Kaiterra laser egg for detecting air quality.

FACILITATOR | GANDHI GLOBAL FAMILY, KATHMANDU, NEPAL | AUGUST 2015- JULY 2016

- Assisted executives in an international NGO coordinating health care in rural areas of Nepal.
- Facilitated patient visits with medical staff and managed medical records.
- Handled accounts payable and other bookkeeping functions.