

# 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

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### COMPUTER SKILLS

- Proficient in Java, C, Linux, Python, mysql, Haskell, HTML, CSS, JavaScript.
- Familiar with Amazon Web Service, React, React Native, SAS
- 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](http://www.sandesht.com)
- <https://github.com/sandesh139>

## Professional Experience

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**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.

**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.