

# Sandesh Timilsina

☎ 6624974421 ✉ stimilsina@unm.edu

## Website

www.sandesht.com

## Education

📅 08/2018 – 12/2020 📍 ALBUQUERQUE, NM

### Computer Science, Mathematics The University of New Mexico GPA 3.89

**Major Coursework:** Software engineering, Artificial Intelligence, Design of Large Programs, Data Structure and Algorithm I and II, Scientific Computing, Numerical Computing, Parallel Processing, Operating System, Number Theory, Applied Matrix Theory, Discrete Math, Linear Algebra, Differential Equation.

## Work Experience

📅 01/2020 – PRESENT

### Student Technical Assistant Center for High Technology Material, UNM

- 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.

📅 08/2020 – PRESENT

### Undergraduate Research Assistant Center for High Technology Material, UNM

- 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.

📅 01/2019 – 01/2020

### Tutor Center for Academic Program Support

## Work Experience

- 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.

## Achievements

- Winning team of CTSC Health Science Hackathon
- Navigation System Inside UNM Hospital project received the fund of \$9,873
- Amigo Scholarship, UNM

## Skills

Java	<div></div>
JavaScript	<div></div>
C/C++	<div></div>
JavaScript	<div></div>
HTML/CSS	<div></div>
Python	<div></div>
Matlab	<div></div>
React/ReactNative	<div></div>
Amazon Web Service	<div></div>
MySQL	<div></div>
Git	<div></div>

## In Class Projects

- Auction House with Sockets and Threads (Java-Group-Project)
- Scrabble, Snake game, Dominos, Connect Four (Java-Individual-Project)

## Leisure Projects

- Connect Four, Break Ball (Javascript, HTML, CSS)
- Covid-19 (Javascript, HTML, CSS)
- Five-Field-Kono (Flutter)