Sandesh Timilsina

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Education

Bachelor of Science in Computer Science and Mathematics Graduated Dec 2020

The University of New Mexico (UNM), Albuquerque, NM **GPA 3.93**

Skills & Abilities

COMPUTER SKILLS

- Proficient in Java, C, Linux(ubuntu),SSH, github, Python, matlab, Haskell, HTML, CSS, JavaScript, JSON, Node.js, MySQL.
- Learning AWS for Developers
- Experience with Scrum and Agile implemented with Jira
- Performed data cleaning and analysis with Pandas(Python)
- Proficient in Microsoft Word, Excel, Acrobat, and Powerpoint
- Ongoing Research Project: Indoor Navigation app development using React Native for UNM Hospital.
- In-Class Projects completed using Java: Online Auction (with sockets), Scrabble, Dominos, Connect-four, NewyorkTimes Tile.
- Leisure Projects completed using Javascript: Weather (node.js running on heroku), Covid-19, Connect-Four, Break-Ball
- https://github.com/sandesh139
- https://timilsinasandesh7.medium.com/

Professional Experience

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

- Updated C scripts monitoring Symantec backup to adapt to a new Veritas system by reviewing logs and performing validation checks.
- Created an interactive quiz application from scratch using javascript, htaccess from apache, css and html.
- Performed automated system monitoring using Nagios and fixed systems, services and hardware alerts.

UNDERGRADUATE RESEARCH ASSISTANT | CENTER FOR HIGH TECHNOLOGY MATERIAL, UNIVERSITY OF NEW MEXICO | AUGUST 2019- DECEMBER 2020

- 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.
- Optimized 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.

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.

Achievements

- Winning team of CTSC Health Science Hackathon 2020
- Navigation System Inside UNM Hospital project received the fund of $9,873
- Amigo Scholarship, UNM
- Summa Cum Laude, UNM