NISCHAL KHATRI

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PROFILE SUMMARY:

A highly motivated, curious, trilingual (English, Hindi and Nepali), and resilient senior seeks for an opportunity in the field of Mathematics and Computer Science.

EDUCATION:

Ramapo College of New Jersey   Mahwah, NJ
Candidate for Bachelor of Science degree   May 2018
Major: Mathematics, GPA 3.8/4.0
Minor: Computer Science

HONORS AND AWARDS:

- Ramapo College Presidential Scholarship   *Fall 2014-present*
- Ramapo College Honors Program   *Fall 2014-present*
- Alpha Lambda Delta Honors Society   *Spring 2015-present*
- Ramapo College Dean's List   *Fall 2014-present*
- New Jersey Undergraduate Mathematics Competition (NJUMC) Winner   *Spring 2017*

SKILLS:

• C++ • Python • Java • JavaScript • HTML/CSS •PHP • Node.js • Three.js • Assembly Language • Data Structure • Analysis of Algorithm • QBASIC • Adobe Photoshop • Cisco Switch/Access Point Setup • Network Troubleshooting

WORK EXPERIENCE:

Network Assistant- *Ramapo College's Information Technology Service- ResNet*   *Spring 2015- present*
- Worked under a Network Engineer to troubleshoot more than 300 computers and 200 laptops which facilitated students and faculties with fast and smooth computers
- Resolved network problems throughout the school that helped in teaching/learning by more than 20 departments, more than 100 teachers and around 5000 students
- Set up/Repaired more than 50 switches, 100 access points, Ethernet ports and 30 data closets to provide uninterrupted internet connection throughout the school
- Managed and checked wireless status in a timely manner

Computer (ELF) Lab Assistant- *George T. Potter Library, Ramapo College of New Jersey*   *Fall 2014- present*
- Assisted more than 5000 students and visitors with the use of library's database/e-reserves which helped students and faculties with their research/homework
- Handled/Maintained lab computers and printers to provide continuous access to lab computers and free printing all throughout the school year

RESEARCHES AND INDEPENDENT PROJECTS:

Research Assistant, Galios Representations Associated to Modular Forms (Prof. McMurdy)   *Summer 2017-present*
- The main objective of this project is to gain an understanding, through explicit computation, of how modular forms give rise to Galois representations. Specifically, we will find an explicit model for the modular curve, $X\_0(35)$, use it to compute the associated Galois representations, and verify that the representations have certain essential properties.

Research Assistant, Virtual Reality (Technology: JavaScript, HTML, Node.js, Three.js, Oculus Rift) *Fall 2015-Spring 2016*
- Conducting numerous experiments with Dr. Scott Frees to identify how effectively users can navigate through traffic in a Virtual Environment that simulates a city street. The ultimate goal is to develop innovative approaches for precision interaction in a 3D immersive virtual environment.
- My main objective in this project is to create an algorithm that would create a virtual environment with various obstacles which can be navigated by using an Oculus Rift that is tracked by a Polhemus G4 tracking system.

Other Projects and Research (Technology: Python, C++, Assembly Language, JavaScript, CSS/HTML, PHP)
- Built a trivial ping-pong game using Python   *Summer 2015*
  GitHub link: : https://github.com/NischalKhatri/Ping-Pong.git
- Built a dodging fame using Assembly Language Programming   *Spring 2015*
  GitHub link: https://github.com/NischalKhatri/Dodge-Em.git
- Built a personal website using CSS/HTML, JavaScript and PHP   *Summer 2016*
  GitHub link: https://github.com/NischalKhatri/Personal-Website
  Website link: http://nkhatri.azurewebsites.net/
- Research Assistant to Professor Ben Fine   *Summer 2016-Spring 2017*
  Worked on the calibration of Elisa-3 Robot and studying the nature of the Robot in various environments.

LEADERSHIP AND CLUB ACTIVITIES

● Pi Mu Epsilon(President) ● Alpha Lambda Delta Honors Society ● Ramapo College Robotics Club ● College Programming Board (CPB) ● Computer Science and Technology Club, and Beekeeping Club ● International Students Organization (ISO)