**SHASHWATI SHRADHA**

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**EDUCATION**

**South Dakota School of Mines and Technology,** Rapid City, SD Expected Graduation Date: **December 2020**

B.S. in Computer Science and Applied & Computational Mathematics, Minor in Robotics **GPA: 3.96 / 4**

*Grace Hopper Celebration Scholar 2019*

**EXPERIENCES**

**Hewlett Packard Enterprise**, *Cloud Engineering Intern* May 2019 – Present

Fort Collins, CO

* Contributed to a *REST API* for a cloud service in *Go Language*
* Improved *unit test* coverage from 13% to 73% which helped detect bugs and make design improvement
* Used virtualization tools including *containers* to implement monitoring, logging, and tracing features

**Raven Industries Inc**., *Software Engineering Intern* May 2018 – December 2018

Sioux Falls, SD

* Expanded sale opportunities by enhancing the UI using *QML* and *QtCreator*
* Developed an application using *C++* which reduced testing and development time
* Used testing and debugging procedures to improve features in an *agile development cycle*

**South Dakota School of Mines and Technology,** *Teaching Assistant* January 2017 – May 2018

Rapid City, SD

* Supervised *C* programming and basic *Arduino* for CSC 170 labs consisting of 30 students
* Cleared doubts and difficulties in topics done in classduring office hours

**PROJECTS**

**Undergraduate Researcher**, *South Dakota School of Mines and Technology* January 2019 – Present

* Researching methods to improve interpretability and training time of machine learning models
* Developing algorithms using *Python* in *Linux* environment
* Won the *Best Overall Undergraduate Presentation* at the SDSM&T 10th Annual Student Research Symposium

**Team Lead**, *Course: Advanced Topics in AI – Natural Computing*  March 2019

* Designed an algorithm to reproduce a given grey-scaled image using geometric shapes
* Used a variation of the evolutionary algorithm in *Python* to achieve the objective
* Resulting images were up to 82% identical to the original image

**SKILLS**

**Primary Programming Languages:** C++, Go, Java, Python **Familiar with** C, QML, Scala, Bash, SQL, R, CUDA

**Web Technologies:** HTML, CSS, JavaScript, PHP **Tools:** Git, MySQL, Dockers, Android**,** Kubernetes

**LEADERSHIP**

*Chapter Secretary***,** Association of Computing Machinery (ACM) September 2018 –Present

*Peer Mentor***,** Women in Science and Technology (WiSE)June 2019 – Present

*Member,* SDSM&T Professional Development Institute (PDI) May 2019 – Present

*Peer Mentor,* Ivanhoe International CenterMay 2017 – May 2019

**ACTIVITIES**

ICPC ACM North Central NA Regional Contest 2017 Rank: 28 of 207 teams

William Lowell Putnam Mathematical Competition 2018 Rank: 1235 of 4623

Midwest Undergraduate Data Analysis Competition (MUDAC) 2019 Top 4 of 60 teams in Data Visualization