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 class during 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
Web Technologies: HTML, CSS, JavaScript, PHP
Familiar with C, QML, Scala, Bash, SQL, R, CUDA
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 Center — May 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