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Mitchell Nelson

Education

9/2016 To Present — **University of St. Thomas** - **Computer Science**, *(Saint Paul, MN)*.
- GPA: 3.92
- Dean's Honors List - 5 of 5 Semesters
- Expected Graduation (with B.S. degree) May 2020

Experience

9/2018 To Present — **Research Assistant**, University of St. Thomas *(Saint Paul, MN)*.
- Program high performance parallel code to optimize GPU performance for bit-map compression algorithms
- Develop test suites to measure execution time of code run on both the CPU and GPU
- Utilize independent work and learning skills

9/2018 To Present — **Teaching Assistant**, University of St. Thomas *(Saint Paul, MN)*.
- Evaluate and grade projects coded by students taking an introductory programming course

2/2018 To 8/2018 — **Web Development Intern**, University of St. Thomas *(Saint Paul, MN)*.
- Developed a responsive homepage geared for student productivity that is now the default homepage for all students using on-campus computers (8,000 visits per day)
- Tested front-end code across a variety of devices and browsers spanning a wide range of screen resolutions
- Communicated with clients to design and implement custom elements into their web pages

Notable Projects

Personal (With Partner) — **Sign Finder**.
- Created a tracking tool for temporary construction signs using Google Maps API as a foundation

Team of 4 — **Safety Play-book**.
- Designed and implemented a football play-book that incorporates safety based off of player parameters such as injury, history, weight, and height as part of a 24 hour hackathon coding challenge

Class — **Process Scheduler**.
- Implemented a Processes Scheduler built to handle First Come First Serve, Round Robin, Preemptive Priority, and Shortest Job First scheduling algorithms

Technical skills

Proficient In: C/C++, Java, CUDA, CSS, GitHub, Linux, Mac OSX

Experience In: Python, PHP, MySQL, HTML, JavaScript, R, LaTeX

Leadership and Activities

9/2018 To Present — **Vice President**, Computer Science Club.
- Organize weekly informational meetings for an active university club with about 60 members

9/2016 To Present — **Member / Drummer**, Jazz Ensemble.
- Prepare for and perform in an audition-based ensemble