

Ryan McLean

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Objective

I am a sophomore looking for a summer internship in computer science engineering.

Work Experience

Sep 2019 – **Research Assistant**, *Michigan State University*, East Lansing, MI.

- Present ○ Predicting energetic properties of transition metals and heavy elements using quantum mechanics, relativity, and programs such as NWChem and Dirac

May 2019 – **Research Assistant**, *University of Michigan*, Ann Arbor, MI.

- Aug 2019 ○ Analyzed the spectroscopic properties of gold nanochains using the classical physics models available in DDSCAT
- Wrote Python and C++ scripts to process image data, including programs and libraries such as CellProfiler, ImageJ, and OpenCV
- Publication for the work is to be expected by next summer

Jun 2017 – **Software Engineering Intern**, *ESG Automotive*, Troy, MI.

- Aug 2017 ○ Interned full time focusing on quality assurance and reporting undesirable userface interactions
- Learned to work a variety of software tools including GitHub, Docker, JIRA, Confluence, and Command Terminal
- Improved method for reporting and communicating bugs through JIRA

Education

Sep 2018 – **BS in Computer Science and Chemistry**, *Michigan State University*.

- Present ○ Honors College
- GPA: 4.000
- ACS/Yates Undergraduate Chemistry Award Recipient
- Relevant Courses: Algorithms, Software Development, Computer Architecture, Organic Chemistry, Discrete Mathematics, Differential Equations, Linear Algebra

Activities

Sep 2019 – **Unmanned Systems Club**.

- Present ○ Building an apache server so the club's drone can communicate with an external computer to do image process while the drone is flying.

Skills

Programming Python, C++, HTML, CSS, Javascript

Other LaTeX, Linux, MS Word, MS Excel, Git, Spanish