

Morgan Sandler

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Objective To learn about and gain working experience with real world aerospace technologies, navigation systems, and satellite systems

Experience **Quicken Loans, Software Engineering Intern**

Detroit, MI (Remote)

June 2020 – August 2020

- Led a small intern team to build a mentorship application which helped to solve the problem of matching experience-variable team members together for strengthening and learning new skills
- Developed two internal services to modularize and expand existing functionality within a complex loan management software system

Michigan State University, TARDIS Group Researcher

East Lansing, MI

May 2020 – Present

- Initiated a redesign of a 3 TB database containing research papers and metadata with Python, Pandas, and Dask to solve a need for an optimized backend to a specialized search engine

The Psychiatry & Psychology Center, Contractual Software Engineer

Northville, Michigan

May 2019 – August 2019

- Established a kiosk check in program and a professional website. Streamlined the patient check in process so they spend less time completing paperwork before appointments and have easier automated scheduled check ins

Skills and Technologies C++, Python, Pandas, Dask, C#, Java, C, Flask, ASP.NET, Progress OpenEdge ABL/4GL, React Native, REST API Design, Amazon Web Services, Google Cloud, Scaled Agile Framework, CircleCI, Grafana, SonarQube

Education and Coursework **BS Computer Science, Cognate in Astrophysics**

College of Engineering and Honors College,

Michigan State University, East Lansing, MI

Expected December 2021, GPA: 3.6/4.0 (Deans List)

Course Specializations: Machine Learning, Artificial Intelligence, Thermodynamics and Modern Physics, Classical Mechanics, Observational Astronomy, Science of Astronomy, Computer Security

Activities: Spartahack Organizer, Spartan Hackers, Alpha Epsilon Pi