

Jacob Kalt

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Education

Michigan State University, East Lansing, MI
B.S. Computer Science | B.S. Computational Mathematics
Minor in Environmental and Sustainability Studies
GPA: 3.95/4.00

May 2019

Skills and Relevant Coursework

- Proficient in C++, Java, Python
- Experience with C, SQL, PHP, JavaScript
- Computer Organization/Architecture (CSE 320)
- Algorithms and Data Structures (CSE 331)
- Object-Oriented Design (CSE 335)

Experience

Teachers in Social Media Project, Research Assistant – East Lansing, MI September 2018 – Present

- Utilized the Pinterest API to analyze how teachers use the social media network
- Applied machine learning and big data concepts to help understand instructional content and teachers' networks at scale

MSU Information Technology, IT Intern – East Lansing, MI June 2018 – Present

- Assisted in university-wide migration to Office 365 and campus active directory domain
- Guided a group of high school students assisting with the migration project
- Worked with end users to resolve email problems
- Collaborated with other interns to ensure excellent customer service

Northpointe Eye Specialists, Technical Intern – Royal Oak, MI May 2017 – August 2017

- Managed and assisted with computer and technology related issues
- Increased productivity with electronic medical record software
- Provided excellent customer service to patients

Activities

Engineers for a Sustainable World MSU – East Lansing, MI September 2016 – Present

Vice President 2018-2019 | Webmaster 2017-2018 | Project Leader 2016-2017

- Maintained relationships with industry partners and sponsors
- Coordinated a team of four project leaders to ensure successful projects
- Increased engagement by redesigning and maintaining club website and social media
- Attended and fundraised over \$3000 for annual conference in April 2017 and 2018

Spartan Speech – East Lansing, MI October 2017 – Present

- Helped launch club to promote speech activities in high schools throughout Michigan
- Planned a speech tournament for high school students at Michigan State University

MSU Jewish Student Union – East Lansing, MI September 2016 – Present

Teva Outdoors Club Chair 2018-2019 | Teva Committee 2016-2018

- Planned and led events focusing on nature and sustainability
- Promoted environmental responsibility through outdoor activities and workshops

Class Project

CSE 335: Object Oriented Programming October 2017

I worked on a scrum team to design the structure for an animated game on Windows using UML diagrams and Visual Paradigm. I then implemented the design using common software design patterns, C++, and the Visual Studio IDE. I later created an adapter to integrate the project with another animated program. I extensively used the principles of agile development to accomplish project goals and utilized Git for version control.

Honors and Awards

Ray Giffels Memorial Engineering Scholarship July 2018

The Phi Beta Kappa Society, Elected junior year April 2018 – Present

Dean's List, Six semesters December 2015 – May 2018