Jimmy Hickey

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EDUCATION

WINONA STATE UNIVERSITY

May 2018 | Winona, MN

BS in Computer Science
BS in Physics
BA in Mathematics
Minors in Statistics and Data Science
GPA: 4.0 / 4.0
Outstanding Grad Computer Science
Outstanding Grad Physics
Outstanding Grad Math and Statistics
Outstanding Student Leader
Article written about my graudation

SKILLS

Programming Languages:
Bash • Java • Python
Hardware Oriented Langauges:
Arduino • Labview • Verilog
Math & Statistics:
Excel • JMP • LaTeX• Mathematica • R • Tableau
Familiar:
Assembly • C • CSS • HTML • Jess • MySQL • Perl

LINKS

GitHub:// **jimmyjhickey**
LinkedIn:// **jimmyjhickey**

ACTIVITES

PHYSICS CLUB

President
August 2016 - May 2018
Plan and coordinate weekly meetings, events, and club trips. Work closely with department to create projects and outreach events.

DEAN'S ADVISORY COUNCIL

August 2017 - May 2018
Advise dean on matters pertaining to students in the College of Science and Engineering. Participate in community and outreach activities such as student panels.

WOMEN IN CS

VP, Treasurer, ACM-W Co-Chair
January 2018 - May 2018
Promote diversity in the field of computing and technology by planning activities and meetings with other students. Plan, manage, and host hands on workshops with guest speakers.

EXPERIENCE

MAYO CLINIC

IT Programmer Analyst - Bioinformatics & Individualized Medicine
July 2018 - Present

- Develop variant annotation, microbiome, and multiple myeloma fusion detection pipelines for research and clinical purposes.
- Suggested and helped start an Onboarding Program from new employees in our unit.
- Help maintain and update IT infrastructure.

WINONA STATE UNIVERSITY

Software Testing and Development for Digi International
August 2016 - May 2018

- Build firmware for microcontrollers and routing devices.
- Intern at Digi International May 2017 - August 2017.

Peer Tutor
July 2016 – May 2018

- Tutor students in Physics, Mathematics, and Computer Science.
- Teach in both one-on-one and group settings.

RESEARCH

WINONA STATE PHYSICS August 2016 - May 2018

Using data from the NOvA experiment at Fermilab and statistical computation methods, we searched for properties of the Kaon particle.

WINONA STATE COMPUTER SCIENCE January 2018 - May 2018

We developed a prototype software that, using machine learning, recognizes color blind problem areas in a photo. It then repairs the colors in to make it distinguishable.

PRESENTATIONS

- 7th Annual Minnesota Conference of Undergraduate Scholarly and Creative Activity
- Minnesota Undergraduate Scholars Posters at St. Paul
- Judith Ramaley Research Celebration
- Pi Mu Epsilon

COMPETITIONS

POLICE DATA CHALLENGE College Best Overall

Our team analyzed and visualized Seattle police data. We looked for patterns in criminal activity and devised implementable solutions for the city based on our findings. For more information, refer to This Is Statistics .

MUDAC 2018 Best Overall

Midwestern Data Analytics Competition. Given 24 hours, our team cleaned and analyzed a set of data provided by the Minnesota Wild. We presented our findings and recommendations to teams of judges, finishing first in this first round. We proceeded to compete against the top five teams, presenting in front of our peers, professors, and all of the judges.

MINNEMUDAC 2017 Top 5 Undergraduate & Honorable Mention

A similar competition to MUDAC; we were given a few weeks to analyze healthcare data. We finished first in the first round of judging and 4th in the final round.