Katy Felkner

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EDUCATION

University of Oklahoma | Norman, OK
>> B.S. in Computer Science, B.A. in Letters | May 2020
>> Minor: Mathematics | GPA: 4.00/4.00

RELEVANT EXPERIENCE

Epic Systems Corporation — Software Developer Intern MAY 2019 - AUG. 2019
- Prototyped a menstrual cycle tracking feature within MyChart for iOS to allow patients to share cycle data with providers
- Designed and implemented server and client side data structures to save cycle data to the patient's medical record
- Built four complete and interactive user-interface screens and partial prototypes of several others
- Conducted user research, including about 100 internal survey responses and 5 user interviews

OU Department of Classics and Letters — Undergraduate Research Assistant JAN. 2017 - PRESENT
- Previously, wrote Python scripts to parse HTML documents containing Latin prose and poetry, generating 125000 lines of SQL output
- Automate XML encoding, reducing time to encode by a factor of 400
- Conference Presentations: National Conference on Undergraduate Research (April 2018), Classical Association of the Middle West and South (April 2018), Society for Classical Studies (January 2019), SunoikisisDC (May 2019 – invited talk).
- Attended National Endowment for the Humanities Institute at Tufts University (July 2018). Only undergraduate student selected.

OU IDEA Lab — Honors Research Assistant DEC. 2018 - PRESENT
- Develop a task for drone programming competitions to familiarize high school students with computer vision technology.
- Tested various hardware configurations and drones
- Built a Brown PiDrone and analyzed the viability of the build for middle and high school students

OU Athletic Department, Norman, OK — Math Tutor AUG. 2016 – MAY 2017
- Tutored college algebra, precalculus, and business calculus
- Met weekly or biweekly with 10 students per semester to reinforce concepts taught in class and help them prepare for exams.

TECHNICAL SKILLS

Python	C	C++	Java	JavaScript	Unix/Linux administration
XML	HTML	CSS	R	SQL	Swift/Objective-C

CAMPUS LEADERSHIP

President APR. 2019 – PRESENT, **Vice President** DEC. 2017 – DEC. 2018, **Alpha Sigma Kappa - Women in Technical Studies**
- As VP, planned and executed nine recruitment events per semester, recruiting 32 new members
- As VP, mentored 9 officers on 5 committees, resulting in successful chapter social and new member education programs.
- As President, oversee 5 executive board members and mentor about 10 officers on other committees.
- As President, serve as chief risk management officer and liaison with other entities on campus.

Secretary – Out in Science, Technology, Engineering, and Math MAR. 2017 - PRESENT
- Send biweekly email newsletters and event announcements to members and various departmental mailing lists
- Work on a team to plan and execute about two medium-scale events per month.

Engineering Representative – Undergraduate Student Congress APR. 2018 – APR. 2019
- Represent the College of Engineering in Student Government Association. Serve on Congressional Administration committee.

Lead Mentor AUG. 2017, **Program Committee Chair** AUG. 2018, AUG. 2019 **– Halliburton Women's Welcome**
- Planned and executed a weeklong program for 70+ incoming female students in engineering.
- Coordinated campus resource fair and inclusive professional dress workshop that received 91% positive participant feedback.
- As a lead mentor, served as a mentor to a small group of eight incoming female engineers.

COMMUNITY INVOLVEMENT

President MAR. 2017 – APR. 2018, **Treasurer** APR. 2018 – FEB. 2019 **– Oklahoma Senior Classical League**
- Planned executive and general meetings and social events
- Served as a liaison and volunteer coordinator between Oklahoma Senior Classical League and Oklahoma Junior Classical League

Mentor – Boren Mentoring Initiative OCTOBER 2018 – MAY 2019
- Met weekly with an at-risk middle school student to work on emotional skills, which teachers observed improving during the year.

HONORS AND AWARDS

Regents' Award for Outstanding Juniors	Big Woman on Campus
Rita H. Lottinville Prize	President's Award for Outstanding Sophomores
Ronald Lehr Phi Beta Kappa Undergraduate Research Award	Alpha Sigma Kappa National Outstanding Leader
Engineering Diversity and Inclusion Scholar	Tau Beta Pi (National Engineering Honor Society)
Women in Engineering Outstanding Sophomore	Women in Engineering Impact in Engineering Award
Holmes Leadership Associate	Honors Physics term paper published in THURJ
University College PACE Award	Myrna L. Carney Award