

# ANNA CRAIG

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## EDUCATION

**University of Washington – Seattle, WA – Master’s of Science in Information Management / Expected graduation June 2021**

- Begins Autumn 2020

**University of Washington – Seattle, WA – Bachelor’s of Science, Major: Bioengineering / Graduated June 2020**

- Cumulative GPA: 3.88
- Relevant Coursework: Programming, Data Structures and Algorithms, Statistics, Calculus series

**Study Abroad in India / University of Washington / New Delhi, India** Aug 2018 – Sept 2018

- Traveled through India visiting nonprofit organizations and established companies to learn about their infrastructure, innovations, and impact, in order to evaluate the effectiveness of each business model.

## AWARDS & MEMBERSHIPS

**Husky 100, University of Washington / Seattle, WA** 2020 recipient

- Selected as one of 100 University of Washington students making the most of their time on campus by connecting experiences in and out of the classroom to make a difference in the community and into the future.

**Departmental Honors, University of Washington / Seattle, WA** Sept 2019 – present

- Selected to be a part of the Bioengineering Honors program for receiving high academic marks.

**Dean’s List, University of Washington / Seattle, WA** Fall 2016 – Present

**Member of Kappa Alpha Theta, Alpha Lambda Chapter / Seattle, WA** Sept 2016 – Present

## SKILLS

- Programming: Java, MATLAB, Python, HTML, CSS, Excel, COMSOL, Autodesk Inventor, AutoCAD, LabVIEW, Arduino

## RELEVANT EXPERIENCE

**Honors Project, University of Washington / Seattle, WA** Sept 2019 – Present

- Collaborated with a team to collect course feedback and process information via Python to effectively present the information on a department course recommendations website, using Tableau’s data visualization software.
- Interviewed faculty members to augment the website with faculty profiles.

**Capstone Project, University of Washington & Target Malaria / Seattle, WA** Jan 2019 – Present

- Developed a proposal for Target Malaria’s efforts in Africa, to create a portable device which runs and efficiently analyzes a LAMP assay to amplify the DNA of mosquitos.
- Prototyped a heating module by designing a block in Autodesk Inventor, modeling heat transfer in COMSOL, and building a PID temperature controlled circuit on an Arduino shield.

**Biotechnology Intern, Intellectual Ventures / Bellevue, WA** June 2019 – Sept 2019

- Conducted an eight-week stability study of bacteriophage in liquid with the purpose of identifying additives to increase long term stability of solutions throughout storage and transportation.
- Analyzed the stability of bacteriophage solutions by evaluating the bacteriophage’s titer as well as the impact on luminescence output from the liquid assay, used in the detection test.
- Formulated a bacteriophage cocktail to best capture the range of *E. coli* by evaluating the luminescence after the addition of substrate to sewer samples previously incubated with bacteriophages containing engineered reporter enzymes.

**Researcher, University of Washington / Seattle, WA** Sept 2018 – May 2019

- Independently managed experiments implementing qPCR, in order to assess the effectiveness of lysis and filtration techniques, by the amount of genomic DNA recovery, under the advisory of Dr. Paul Yager to develop low cost point-of-care diagnostics which combine microfluidic systems and smart phone applications.
- Presented at lab meetings to collect feedback, stemming the exploration of possible new approaches to current work.

**Engineering Design Coach, University of Washington / Seattle, WA** Sept 2018 – May 2019

- Assisted ENGR 105: Introduction to Engineering Design by leading weekly laboratory sections of 30 students to introduce students to circuits, simple machines, and programming, etc. so that they can implement this knowledge into design projects.
- Facilitated group discussions to problem solve student’s issues regarding team dynamic and design plan roadblocks resulting in students developing more successful projects as well as teamwork skills.

## ADDITIONAL EXPERIENCE

**Student Affairs Committee / University of Washington - Bioengineering / Seattle, WA** Sept 2018 – Present

- Discussed departmental protocols and reviewed petitions with advisors, peers, and faculty to achieve a fair, standardized policy.

**Sales and Marketing Intern, Xenon Arc / Bellevue, WA** June 2018 – August 2018

- Managed client interactions to fulfill purchase orders and resolve issues in order to maintain positive client relations and meet quarterly sales goals.

- Ran campaigns by strategically employing social media platforms and cold calling to create new business.
- Generated market reports with sales trends, via excel, to implement more strategic client communication.

**Wally's Play Group Assistant Facilitator / Seattle, WA**

Jan 2017 – June 2018

- Facilitated a therapy group for ten children on the spectrum of autism alongside a trained psychologist to improve their social-emotional intelligence to better prepare them for structured and social settings.