

CAROLINE ANDERSON

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EDUCATION

The Pennsylvania State University Schreyer Honors College Aug. 2018 - May 2022
Computer Science- 4.0 Dean's List
Relevant Course Work: Object Oriented Programming with Web Based Applications, Discrete Mathematics, Digital Design, Programming and Computation II: Data Structures (A), Honors Leadership Jumpstart (A), Calculus III (A)

WORK EXPERIENCE

Microsoft, Incoming Explore Intern, Redmond, Washington May 2019 - Aug. 2019

Human Computer Interaction Institute Carnegie Mellon University, Summer Undergraduate Researcher, Pittsburgh PA May 2018 - Aug. 2018

Conducted research in crowdsourcing, Developed intelligent tools to help crowd workers increase salary up to 50%

- Developed web plugin to facilitate communication between online crowd workers on Amazon Mechanical Turk using Javascript and HTML
- Implemented back-end for plugin using PHP and MySQL
- Designed user study to evaluate if product increased crowd work income

West Virginia University (WVU) Human Computer Interaction Lab, Research Assistant, Morgantown, WV Oct. 2016 - May 2018

Developed intelligent bots on social media to answer novice's question

- Created a question-answer Twitter bot (@WVUStatlerBot) for WVU Statler College of Engineering. The bot was used by the college of engineering which has over 2000 students
- Designed and taught a bot building course for rural teenagers

Designed crowdsourcing computational workflows to help rural citizens build low cost prosthetics at scale.

- Produced informational video to encourage citizen crowds to build 100 3D printed prosthetic devices.

NASA Independent Verification and Validation (IV&V) Facility, Computer Science Intern, Fairmont, WV June 2017 - Aug. 2017, June 2016 - Aug. 2016

Collaborated with system engineers to develop prototype SQL database to organize possible software hazards for critical NASA missions

- Created user manual for database
- Cooperated with project leads to obtain project data
- Incorporated flight and ground security vulnerabilities into database
- Worked with toolmakers to improve web application database tool

Presented work at NASA Headquarters in Washington, DC

SKILLS

SOFT: Leadership, Communication, Teamwork

PROGRAMMING LANGUAGES (PROFICIENT): Python, Java

PROGRAMMING LANGUAGES (FAMILIAR): JavaScript, SQL, PHP, HTML

PUBLICATIONS

Interfaces for Helping Crowd Workers to Earn a Higher Wage 2019

Bigham Jeffrey, Saiph Savage CHI: ACM Conference on Human Factors in Computing Systems (under submission)

Understanding Mobile Money Perceptions of Latin American Migrants 2017

Chun-Wei Chiang, Caroline Anderson, et al. Saiph Savage. Latin American Conference on Human-Computer Interaction.

AWARDS

Future Leaders in Technology Scholarship, Connect Worldwide 2018

Provost Award, Academic Excellence Scholarship, Engineering Recruitment Scholarship, The Pennsylvania State University 2018

Cybersecurity Scholarship, Rural Technology Fund 2019

Award for Aspirations in Computing Affiliate Winner NCWIT 2018

ACTIVITIES

Dev PSU, Performance Award Aug. 2018 - Nov. 2018

Women in Computing, Member Aug. 2018 - Current

HackPSU Sponsorship Team, Member Jan. 2019 - Current

Phi Sigma Rho, Pledge Class President Feb. 2019 - Current

