

Alyssa Jo Tice

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EDUCATION

The Pennsylvania State University
Schreyer Honors College, College of Engineering
Bachelor of Science in Computer Science

Class of 2020
University Park, PA
GPA: 3.99/4.00

- Computer Science Honors Thesis: *Datalog-based Superset Disassembly of ELF Binaries*
Thesis Advisor: Dr. Gang Tan

WORK EXPERIENCE

Microsoft
Software Engineer, Developer Division

August 2020
Redmond, WA

Capital One
Software Engineering Intern

June 2019 – August 2019
McLean, VA

- Built backend of minimum viable product that extended an in-app communication platform for email messaging with a business valuation of \$55MM
- Created Java-Maven-Springboot application that consumed file from AWS S3; validated, encrypted, built JSON requests, and called API for each line in file
- Queried NoSQL database for correct email template identification
- Designed error reporting and kept usage statistics to send via SNS
- Tested and deployed product to AWS EC2 production environment using shell scripts and Jenkins job

JP Morgan Chase & Co.
Software Engineering Intern

June 2018 – August 2018
Wilmington, DE

- Constructed cloud-based web portal using Bootstrap, React, JavaScript, and HTML that updates with information to help developers increase productivity
- Used Regex to parse email subject lines to collect updates on environment health from a reporting team
- Worked with a product owner as part of a fully functioning Agile scrum team

The Pennsylvania State University
Undergraduate Learning Assistant: CMPSC 475, CMPSC 132, CMPSC 131

September 2018 – May 2020
University Park, PA

- Led bi-weekly lectures teaching Swift principles, classes, and frameworks
- Graded and assessed Swift projects for 25 students/week
- Mentored students on coding skills and conceptual technical understanding for Swift and Python

LEADERSHIP EXPERIENCE

College of Engineering
Ambassador

May 2017 – May 2020
University Park, PA

- Sponsored by Boeing to give tours of the College of Engineering to prospective students
- Performed outreach trips to younger minority groups to advocate engineering as a career
- Networked with corporate sponsors to coordinate outreach and recruiting efforts for Penn State

Women in Engineering Program
Study Group Facilitator: Vector Calculus, Calculus I, Programming & Computation

January 2018 – May 2020
University Park, PA

- Hosted weekly study sessions for women engineers in introductory classes
- Advised group members on resumes and career development
- Cultivated diversity within engineering at Penn State

SKILLS & RELEVANT COURSEWORK

Technology Skills: Python, Java, Swift, SuperCollider, Agile

Relevant Coursework: Computational Theory, Data Structures and Algorithms, Systems Programming, Digital Design, Database Management Systems, Object Oriented Programming, Programming Language Concepts, Computer Organization, iOS Application Development

AWARDS & HONORS

Computer Science Student Marshal

2020

Evan Pugh Scholar Award

2019

Schreyer Honors College Academic Excellence Scholarship

2016 – Present

BP Scholar

2017, 2019