

Alyssa Jo Tice

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EDUCATION

The Pennsylvania State University
Schreyer Honors College, College of Engineering
Bachelor of Science in Computer Science
Minors in Music Technology and Mathematics

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

- Computer Science Honors Thesis: *Datalog-based Disassembling of Portable Executable Binaries* (in progress)
Thesis Advisor: Dr. Gang Tan

WORK EXPERIENCE

Capital One

June 2019 – August 2019

Software Engineering Intern

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.

June 2018 – August 2018

Software Engineering Intern

Wilmington, DE

- Utilized Microsoft SharePoint API to display data from SharePoint site to a central cloud-hosted site
- 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

September 2018 – Present

Undergraduate Learning Assistant, CMPSC 475, CMPSC 131

University Park, PA

- Assess and evaluate student technical skills, code, and analytical skills
- Mentor students on improvements, study skills, coding skills, and conceptual technical understanding
- Lead hour-long recitations twice weekly to teach coding concepts and help students with debugging

LEADERSHIP EXPERIENCE

College of Engineering

May 2017 – Present

Ambassador

University Park, PA

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

Women in Engineering Program

January 2018 – Present

Study Group Facilitator, Vector Calculus

University Park, PA

- Host weekly study sessions for women engineers in introductory classes
- Advise group members on resumes and career development
- Cultivate 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

Evan Pugh Scholar Award

2019

College of Engineering Dean's List

2016 – Present

Schreyer Honors College Academic Excellence Scholarship

2016 – Present

BP Scholar

2017, 2019