Alyssa Jo Tice

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EDUCATION

The Pennsylvania State University — **Class of 2020**
Schreyer Honors College, *College of Engineering* — *University Park, PA*
Bachelor of Science in Computer Science — **GPA: 3.99/4.00**
Minors in Music Technology and Mathematics
- 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*
- Lead bi-weekly lectures teaching Swift principles, classes, and frameworks
- Grade and assess Swift projects for 25 students/week
- Mentor students on coding skills and conceptual technical understanding for Swift and Java

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