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# Will Tyler

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## Objective

To use education, skills, and experiences in a summer internship to make a significant difference in a company as well as the fields of computer science and software development.

## Education

|                   |        |                                 |        |                                 |     |      |                        |
|-------------------|--------|---------------------------------|--------|---------------------------------|-----|------|------------------------|
| Purdue University | Majors | Computer Science<br>Mathematics | Tracks | Security<br>Systems Programming | GPA | 3.90 | Aug 2017<br>– May 2021 |
|-------------------|--------|---------------------------------|--------|---------------------------------|-----|------|------------------------|

## Experience

|  |  |                         |
|--|--|-------------------------|
| Lab Lead at Purdue                       | Directed a lab section during the Bridge program. Delivered included daily presentations and teaching assistance. Mentored 44 incoming first-year students to success at Purdue.   | July 2019<br>– Aug 2019 |
| Software Engineering Intern at Springbuk | Utilized Rails features to create and execute database migrations, introduced a new API version with updated endpoints, and improved routing and organization. Implemented backend logic in multiple projects to support development of an in-house ETL and data warehousing solution. Introduced and documented multiple enhanced debugging tools. Architected and implemented multiple user-facing, frontend improvements as well. | May 2019<br>– July 2019 |
| Curriculum Developer at Purdue           | Designed new and challenging handouts and labs for next year's generation of Computer Science students. Developed with Java, on subjects related to object-oriented programming.   | Sep 2018<br>– Dec 2018  |
| Teaching Assistant at Purdue             | Mentored and guided over 30 incoming first-year students with no programming experience throughout the Bridge Program as a former student. Resolved questions in labs, supported transition to college, and delivered several presentations on Java topics and object-oriented programming.  | July 2018<br>– Aug 2018 |

## Projects

|                |   |                        |
|----------------|---|------------------------|
| Kleene         | Architected and developed an iOS application to enable the transfer of songs, albums, playlists, even entire libraries amongst music services including Apple Music, Deezer, and Spotify. Built with UIKit with Swift, built without Storyboards, and accessible on GitHub. | Sep 2018<br>– Dec 2018 |
| Emoji Detector | Built an iMessage app that analyzes the user's facial features to predict Emojis that best fit his or her expression. Used a Core ML model, Swift, and Xcode. Open-source and built without Storyboard files.   | June 2018              |
| GroupMac       | Created a GroupMe desktop client for macOS. Users can view conversations, like/unlike messages, and send messages in an app with a similar look and feel to GroupMe. Utilized the AppKit framework, Swift, and Xcode. Open-source and built without Storyboard files.       | July 2018              |
| Swell          | Constructed a shell with Swift. Implemented command-with-arguments, pipes, directory change, input redirection, interrupt handling, and exit and source commands. Source code repository accessible on GitHub with 27 stars.  | May 2018               |

## Involvement

|                             |  |
|-----------------------------|--|
| Purdue iOS Development Club | Serving as a member since April 2018 and created strategies to increase member retainment. Developed a dark mode theme and fixed bugs on the Purdue App.   |
| Hello World Mentor          | Mentored first-year students with little experience at Purdue's first-year-student-only hackathon in topics such as Mobile Development, Firebase, API usage, and Front-end Web Development for 25 hours. |
| CS Women's Network          | Serving as a member since August 2018 to support and encourage women in Computer Science.  |

## Skills

|           |  |
|-----------|--|
| Languages | Swift, Java, Ruby, C, C++, Typescript, HTML, CSS                           |
| Tools     | Git, GitHub, Bash, Vim, Angular 6.0, JetBrains IDEs, Xcode, VS Code, LaTeX |
| Strengths | Problem Solving, Analytical Thinking, Communication, Abstraction, Teamwork |