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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 | Major | Computer Science | Tracks | Software Engineering | Aug 2017 – May 2021 |
|---|---|---|---|---|---|
| | Minor | Mathematics | | Machine Intelligence | |
| | | Entrepreneurship Certificate | GPA | 3.96 | |

## Experience

| Curriculum Developer | Designing new and challenging handouts and labs for next year's generation of Computer Science students. Developing with Java, on subjects related to object-oriented programming. | Sep 2018 |
|---|---|---|
| Teaching Assistant | Mentored and guided over 30 incoming freshmen with no programming experience throughout the Bridge Program (previously a student). Resolved questions in labs, supported transition to college, and delivered several presentations on Java topics and object-oriented programming. | July 2018 – Aug 2018 |

## Projects

| 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, available on the App Store, 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 |
| Mission Control | Constructed a personal, customized homepage with quick access to the web using Angular CLI to produce static web files that serve locally. Implemented a pop-up form to add new links and a Firebase real-time database. Source code accessible on GitHub. | May 2018 |
| Essentials | Generated a Swift library to implement many of the common, useful language features not available in Swift, such as increment operators and a wrapper for randomization functions. | Aug 2018 |

## Involvement

| Purdue iOS Development Club | Serving as a member since April 2018 and created strategies to increase member retainment. |
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| Hello World Mentor | Mentored freshmen with little experience at Purdue's freshmen-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, C, Typescript, HTML, CSS |
|---|---|
| Tools | Git, GitHub, Bash, Vim, Angular CLI, Jetbrains IDEs, Xcode, VS Code, GDB, LaTeX |
| Strengths | Problem Solving, Analytical Thinking, Communication, Abstraction, Teamwork |

## Coursework

| Complete | Current |
|---|---|
| CS 180 — OOP in Java | CS 250 — Computer Architecture |
| CS 182 — Discrete Math and Applications | CS 251 — Algorithms and Data Structures |
| CS 240 — Programming in C | ENTR 200 — Entrepreneurship and Innovation |
| MA 162 — Calculus II | MA 261 — Calculus III |