

# TOBIAS SCHWEIGER

St. Louis, MO

<https://tobischw.me> ♦ [tschwei@siue.edu](mailto:tschwei@siue.edu) ♦ [tobischw](#) (GitHub)

## EDUCATION

**Southern Illinois University Edwardsville**

*Expected Fall 2020*

B.S. in Computer Science (with Math minor)

Teaching Assistant for the Department of Computer Science

Overall GPA: 3.87 / Computer Science GPA: 4.00

## EXPERIENCE

**Object Computing, Inc**

May 2018 - September 2018

*Software Engineering Intern, continued.*

*St. Louis, MO*

- Performed comprehensive integration and unit testing for a new Java-based actor-model framework.
- Wrote extensive documentation for fast actor-model based web server.
- Built React/Redux web app for IoT demo using MQTT and WebSockets.
- Debugged and assembled Raspberry Pi-based IoT devices.

**Object Computing, Inc**

September 2017 - January 2018

*Software Engineering Intern*

*St. Louis, MO*

- Developed iOS application (in Swift) for a MQTT-based IoT platform. Integrated augmented reality demo using ARKit.
- Expanded telemetry web interface for IoT platform using a JavaScript frontend and a Java backend.
- Created stress-testing tools for the inventory management system of a large, U.S. based retail chain with over 1,000 stores and \$20 billion in annual revenue.

## PROJECTS

**“Harmonize”**

October 2019

*2nd Place Winner of “Dare Mighty Things Hackathon - Best Visualization”*

*Chicago, IL*

- Social music listening app, written in JavaScript using Vue, with a Go backend using MariaDB (40+ teams competed). Lead to future internship at *Shure Inc.*

**“Notery”**

March 2019

*Winner of “eHacks 2019 Hackathon - Best UI/UX”*

*St. Louis, MO*

- Collaborative note taking app for students. Written in React using WebSockets, ExpressJS, and MongoDB.

## SKILLS

**Proficient with**

Java, JavaScript, C#, Dart

**Worked with**

Swift, C++, Rust, Scala

**Frameworks & SDKs**

React, Vue, Flutter, .NET

**Protocols & Patterns**

REST, WebSockets, MQTT, SOLID

**Databases**

MySQL/MariaDB, MongoDB

**Tools**

Linux, Git, Maven, VSCode, L<sup>A</sup>T<sub>E</sub>X, Office Suite

**Other**

Hobby game dev (Unity/MonoGame), UX Geek, Raspberry Pi & Arduino tinkerer

## REFERENCES

**Dennis J Bouvier, PhD**

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*Professor of Computer Science at Southern Illinois University Edwardsville*

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