Sarah Klein

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University of Florida

B.S. Digital Arts and Sciences Engineering, 2017 B.A. Music Theory, 2017 College of Engineering College of the Arts

Past and Present Employment

(Microsoft) Software Developer Engineer

July 2018 - Present

ReactJS, React Native, C#, C, Objective-C, Java, python, Jest

- Collaborated on React Native mobile app, built for iOS and Android, for provisioning IoT devices over BLE, including ownership of unit testing (Jest) and telemetry (App Center)
- Developed firmware for provisioning IoT devices running IoT Core (C#) and Mongoose
- > Used OpenCV and python to analyze human activity in physical spaces based on real-time video
- Collaborated with external partners to integrate 3rd-party ML into 1st-party data pipeline

(Microsoft) Data & Intelligence Engineer

September 2017 - July 2018

C#, XAML, JavaScript, Cosmos, SQL, python, Java, Objective-C, ML Studio

- Developed and validated UWP applications for Windows IoT Core, contributing primarily to IoT Core default app, Smart Display
- Debugged IoT Core on various devices (RPi, Dragonboard, MinnowBoard, Up2) and sensors
- Developed and validated web, iOS, and Android applications for internal selfhosting of IoT Core
- Used data analytics and machine learning techniques to gain insight on IoT Core stability and usage

(Microsoft) Developer Intern, PowerPoint

May 2016- August 2016

Java, C#, XAML, SQL

- Implemented a feature for UWP and Android platforms that renders a laser pointer onto a PowerPoint presentation, the position of which is manipulated using the phone's gyroscope,
- Implemented unit tests and telemetry for new feature

(Microsoft) Developer Intern, Sway

May 2015-August 2015

TypeScript, XAML

Designed, implemented, and tested native audio support for Microsoft Sway, allowing users to incorporate audio files in their Sways

(Grooveshark) QA Developmer Intern

January 2015-April 2015

JavaScript, EJS, LESS

- Performed bug fixes and implemented features for both user-facing web site and internal flighting
- Worked closely with designers for pixel-perfect UI across all supported platforms

Projects/Publications

PseudoComposer (https://github.com/ssk13/SeniorProject)

- A multi-year study in algorithmic composition, beginning with a Java program that composes 4-part chorales in the style of J.S. Bach, and culminating in a university funded research project
- ❖ Worked closely with music theory faculty to design and develop an angular web application that verifies user-provided species counterpoint according to 16th century standards
- * Research paper selected for publication in the Summer, 2018 edition of the Journal of Undergraduate Research