

# MICHAEL SHIELDS

SOFTWARE ENGINEER

## EXPERIENCE

Nov 2018 - **IQ Inc.**

Present *Software Engineer*

- Full-stack developer using C#, .Net Core 2.1, React/Redux. and MS SQL Server, for Pharmaceutical drug compounding device. Developed front/backend for the web application and the compounding device.
- Participated in Agile community of practice to better our dev team's agile methodologies.
- Deployed software updates via Docker for Windows.

April 2017 - **BNY Mellon**

Nov 2018 *Lead Developer*

- Lead developer of Atlas, an automated build, test, and deployment service (CD/CI) that interfaces with Jenkins, Nexus, Git, and Docker/Mesos. Java (Spring), JPA, Hibernate, Kafka. Practice Agile/scrum with 2 week sprints.
- Developed frontend with Angular 5 / TypeScript using Material UI components and practices.
- Developed/helped design tool to allow non-technical users to generate customizable forms that are used company-wide. Deployed via Docker to corporate cloud running Marathon/Mesos.
- Ran several, and participated in, Workshops to facilitate learning

July 2015- **Northrop Grumman**

April 2017 *Software Engineer*

- Wrote embedded software for an Airborne Warning system, added new UI functions for a radar system, and created new algorithms for a radar system to enable new radar modes in real time. C / C++, Eclipse, C#, Visual Studio 10/13.

## PROJECTS

April 2018-

Present **Snip-it**

*Android Application*

- Application that allows users to record audio snippets to send to other users. Implements Google Play Services APIs to allow users to sign in via their Google account.
- Android SDK, Java, XML, Google Play Services, Firebase Authentication APIs, Firebase Realtime Database.

Dec 2016- **Pokecontacts**

Feb 2018 *Android Application*

- Application alphabetizes the user's contacts into a contact list. The user is able to select an avatar for each contact. New contacts are dynamically added.
- Implemented an indexed list for quicker navigation of finding contacts. Usual operations, like texting and calling, are supported.
- Internal storage operations allow the user to save/customize their contact list.
- Applied the Fresco library for better loading and displaying of


## EDUCATION


**University of Pittsburgh**


Bachelors of Science - Computer Science


2011 - 2015

## CONTACT

 717-379-8075

 mtshields1@gmail.com

 mtshields1.github.io

 <https://github.com/mtshields1>

## TECHNICAL SKILLS

### Programming

Java (Spring, JPA, Junit4+)

C / C++

Python

C# (.NET Core 2.1, Linq, ASP.NET)

Javascript (AngularJS)

TypeScript (Angular4/5+)

HTML5 / CSS

SQL

Android SDK

WPF

### Operating Systems

Windows

Linux

Android

### Databases

Oracle

Postgres

Firebase

Microsoft SQL Server

### Applications and Software

IntelliJ

Android Studio

Visual Studio Code

Git, Subversion

Apache Kafka

Hibernate

Maven, Gradle

Visual Studio

Docker