MICHAEL SHIELDS

SOFTWARE ENGINEER

EXPERIENCE

Nov 2020 – Present

Noctem
Full Stack Developer
- Added a number of bug fixes and features to a mobile app used to improve sleeping habits, currently being used on active military bases.
- Initial development of a second mobile application to help improve sleeping habits. Pages and functions included, but were not limited to, assessment pages to save and track the patient's sleep progress, a statistics page to display the patient's data using a number of charts, and functionality to alert the patient when assessments are due, along with all associated APIs. Angular/Typescript, Node.js, MongoDB.
- Created ionic configuration files for building the project's UI source code into native Android and iOS applications.

Nov 2018 – Nov 2020

IQ Inc.
Software Engineer
- Full-stack developer using C#, .Net Core 2.1, React/Redux. and MS SQL Server, for Pharmaceutical drug compounding device. Developed frontend/backend for the web application and the compounding device.
- Deployed software updates via Docker for Windows.
- Created Amazon Alexa skills that made use of AWS IoT to perform hardware operations on a remote hardware device.
- Secured a contract by demoing an AWS project to the client, and created work estimates as part of the project proposal.

April 2017 – Nov 2018

BNY Mellon
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.

July 2015- April 2017

Northrop Grumman
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

Dec 2016- Feb 2018

Pokecontacts
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.
- Usual operations, like texting and calling, are supported.

EDUCATION

University of Pittsburgh
Bachelors of Science – Computer Science
2011 - 2015

CONTACT

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- 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+)
Reactjs/Redux
HTML5 / CSS
SQL
Android SDK
WPF

Operating Systems
Windows
Linux
Android

Databases
Oracle
Postgres
Firebase
Microsoft SQL Server
MongoDB

Applications and Software
AWS
AWS IoT
Alexa Skills Kit
Ionic Framework
Intellij
Android Studio
Visual Studio Code
Git, Subversion
Apache Kafka
Hibernate
Maven, Gradle
Visual Studio
Docker