

Ibrahim Ahmed

East Lansing, MI - ahmedibr@msu.edu - <https://atbe.me> - github.com/atbe

Education

Michigan State University
Master of Science, Computer Science
GPA: 4.00 / 4.00

East Lansing, Michigan
Expected Graduation December, 2019

Michigan State University
Bachelor of Science, Computer Science
GPA: 3.70 / 4.00

East Lansing, Michigan
Graduated May, 2018

Experience

Crowe LLP
Software Engineering Intern

Indianapolis, Indiana
05/2017 - Current

- Working remotely since end of internship on the Architecture team for the *Crowe Tax Connect* application
- Designed and developed tax submission software using C#/Angular to automate and assist accountants' tasks
- Fully implemented a SSO (single sign on) solution for multiple Crowe software applications
- Leading migration efforts to refactor Monolithic *Crowe Tax Connect* application to Microservice architecture

Michigan State University (<http://dse.cse.msu.edu/>)
Computer Science Research Assistant

East Lansing, Michigan
10/2016 - Current

- Applying machine learning and data science techniques to social media, political, and academic data

Michigan State University
Computer Science Teaching Assistant

East Lansing, Michigan
08/2016 - Current

- Mobile App Development (CSE 476), Algorithms & Data Structures (CSE 331), Intro to Programming (CSE 231)
- Designed a challenging Hash Table implementation in C++ as a project for the students of the CSE 331 course

Blue Medora
Software Engineering Intern

Grand Rapids, Michigan
Summer 2016

- Upgraded tools used to develop Oracle Enterprise Manager plugins which improved the development process
- Developed data collectors in Kotlin for the Pivotal Cloud Foundry and MongoDB for VMware VROPS platform

Projects

Trump Tweet Tracker

10/2017 – 12/2017

[Trump Tweet Track](#) performs data analysis on the replies sent to Donald Trumps' Twitter account. The code for the entire project is open-source on Github and is implemented using Python, Angular, and Firebase.

PinPy – Pinterest API Module for Python

02/2017 – Current

[PinPy](#) is a Python library built to provide easy access to the Pinterest API. PinPy is available on my Github.

Tic-Tac-Toe for Android – Serverless Multiplayer Game

03/2017 - 04/2017

Developed a serverless [Tic-Tac-Toe Android multiplayer game](#) for the CSE 476 course at Michigan State using the Google Firebase Platform. The code is open-sourced on GitHub and consists of a two-tier architecture implemented using Java.

MyDJ – Machine Learning Music Playlist Currator

09/2018 - 12/2018

[MyDJ](#) was written as a team project for the CSE 881 (Data Mining) graduate course. MyDJ utilizes Machine Learning to curate songs based on users artist preferences and plays them in a web application.

Skills

Programming Languages: **Expert:** Python, TypeScript, C#
 Proficient: C++, Java, Kotlin
 Familiar: C, Go, Perl, Ruby, CSS, HTML

Specialized Skills: Applied Machine Learning, Software Architecture and Design, Domain-Driven Design, Mobile App Development (Android), Microservices, OAuth, API Design, Angular Web Framework