Mohammad M. Ahmad

813 W Springfield Ave, Urbana, IL 61801 · mmahmad3@illinois.edu · (617) 909-4234 · https://mmahmad.dev

EDUCATION

University of Illinois at Urbana-Champaign

Master of Computer Science GPA: 3.83

Urbana, IL Aug 2018 | Dec 2019

Aug 2018 | Dec 2019 Islamabad, Pakistan

National University of Sciences and Technology

Sep 2013 | Jun 2017

Bachelor of Science, Computer Science GPA: 3.55

Work Experience

Nutrien Ag Solutions, Inc

Champaign, IL

June 2019 | August 2019

Software Engineer Intern

 \bullet Dockerized application to aid local development and replicate test/prod environments

- Re-architected Python application to follow object-oriented design and principles
- Increased unit test code coverage by ~45\% to make application robust and fault-tolerant
- Migrated codebase from Python 2 to Python 3 while maintaining backward compatibility
- Integrated Sentry, a tool to monitor application crashes in real time and alert developers
- Collaborated with DevOps to create a separate development pipeline for agile s/w development

Techlogix

Karachi, Pakistan

Software Engineer

July 2017 | May 2018

- Developed the front-end of at Event, an enterprise web product, in Angular 4/5
- Supported the back-end team by developing CRUD REST APIs based on the Spring framework
- Coordinated with various offsite teams to develop, review progress, and address any concerns
- Awarded Achiever of the Month within the first 6 months of employment in recognition of hard work and dedication

TUKL-NUST
Research Intern

Islamabad, Pakistan
Jun 2016 | Aug 2016

- Applied transfer learning to build a neural network for Urdu OCR, accurate to 90+%
- Evaluated accuracy of trained model with filtered images

Bitsym

Islamabad, Pakistan

July 2016 | Aug 2016

Software Engineer Intern

- Prototyped Android application to track Bluetooth-based iBeacons, used to find lost items
- Set up Parse BaaS to store beacon data and communicate with the app

PROJECTS

Crane Python

A faster distributed computation system for small-scale input data, inspired by Apache Storm. Our system was 35% faster than Apache Spark SQL

Track My Meds Alexa Skills Kit SDK, NodeJS, JavaScript

An Alexa skill to set customized, recurring medication reminders and track drug usage

AssemSure Python

A machine learning model to improve and automate quality assurance on assembly lines by predicting potential product failure, accurate to 85+%

SKILLS

General Programming Languages: Python, Java

Web Development: HTML, CSS, JavaScript, Angular 4/5, Spring

Mobile App Development: Android SDK, Ionic 3 (cross-platform for iOS and Android)

Smart Assistant: Amazon Alexa Skills Kit SDK

DBMS: MySQL, PostgreSQL

Cloud: AWS (EC2, Elastic Beanstalk, S3, RDS), Google Cloud Compute

Tools and Technologies: Docker, Git, JIRA

Operating Systems: Linux, macOS, Windows, Android, iOS