

MOHAMMAD M. AHMAD

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<https://mmahmad.dev>

EDUCATION

University of Illinois at Urbana-Champaign

Master of Computer Science *GPA: 3.83*

Urbana, IL

Aug 2018 | Dec 2019

National University of Sciences and Technology

Bachelor of Science, Computer Science *GPA: 3.55*

Islamabad, Pakistan

Sep 2013 | Jun 2017

WORK EXPERIENCE

Nutrien Ag Solutions, Inc

Software Engineer Intern

Champaign, IL

June 2019 | August 2019

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

Techlogix

Software Engineer

Karachi, Pakistan

July 2017 | May 2018

- Developed the front-end of atEvent, 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

Software Engineer Intern

Islamabad, Pakistan

July 2016 | Aug 2016

- 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, SQLite, PostgreSQL, MongoDB, Neo4j
Cloud:	AWS (EC2, Elastic Beanstalk, S3, RDS), Google Cloud Compute
Tools:	Docker, Git, JIRA
Operating Systems:	Linux, macOS, Windows, Android, iOS