Mohammad M. Ahmad

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https://mmahmad.dev

Education

University of Illinois at Urbana-Champaign · Urbana, IL
Master of Computer Science *GPA: 3.83* · Aug 2018 | Dec 2019

National University of Sciences and Technology · Islamabad, Pakistan
Bachelor of Science, Computer Science *GPA: 3.55* · Sep 2013 | Jun 2017

Work Experience

Nutrien Ag Solutions, Inc · Champaign, IL
Software Engineer Intern · June 2019 | August 2019

- Dockerized application for smooth development and to prevent package version conflicts in various environments
- Integrated Sentry for developer-friendly error and crash monitoring and alerts
- Collaborated with DevOps to create a separate developer pipeline for agile development
- Re-architected application to follow object-oriented design and principles
- Implemented unit tests and increased code coverage by ∼45% to make application robust and fault-tolerant

Techlogix · Karachi, Pakistan
Software Engineer · 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
- Achiever of the Month award within the first 6 months of employment in recognition of hard work and dedication

TUKL-NUST · Islamabad, Pakistan
Research Intern · 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
Software Engineer Intern · 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:	Git, JIRA, IDEs (VSCode, IntelliJ, etc)
Operating Systems:	Linux, macOS, Windows, Android, iOS