Shad Khan

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Education

University of Maryland **Spring 2020**
B.S Computer Science, Business Analytics Minor *GPA: 3.548*

- **Relevant Coursework:** Data Structures, Data Science, Computer and Network Security, Algorithms, Object Oriented Programming, Full Stack Web Development (Node.js/Flask), Database Systems, Data Analytics, Android Programming
- **Awards:** UMD President's Scholarship, Dean's List (Spring 2018, Fall 2018, Spring 2019, Fall 2020)
- **Organizations**: Resident Assistant, Kappa Theta Pi Professional Technology Fraternity, Technica Hackathon Organizer

Technical Skills

Languages – Core Strengths: Java, Python **Experience With:** SQL, R, HTML/CSS, JavaScript, C, Gherkin
Technologies - Node.js, Express, Handlebars.js, MongoDB, Bootstrap, jQuery, Git, Unix, Heroku, Pandas, Tableau

Work Experience

Fannie Mae **Herndon, VA**
Software Developer Intern *June – August 2019*

- Developed several features surrounding Fannie Mae's Commitment Eligibility and Loan Pricing Backend API's using the Java Spring framework and worked on UI features involving the Servicing Marketplace Application using Angular
- Wrote thorough backend JUnit tests, frontend Jasmine tests, and automation tests using Cucumber and Selenium
- Deployed code to higher environments/servers with Jenkins, and verified code quality and coverage with SonarQube
- Presented to team members, product owners, and stakeholders during demos and bi-weekly Agile sprint reviews

University of Maryland **College Park, MD**
Database Systems (BMGT402) Teaching Assistant *June 2019 – December 2019*

- Teach students about relational databases using Microsoft SQL Server and data visualizations with Tableau
- Conduct lab exercises and office hours to answer questions, debug students' code, and grade assignments

Projects

Recipes Crowd-Sourced Web App **December 2018**

- Created a Node.js Recipes API and interactive web application in which users can add new recipes as well as filter through current ones by name, type of meal, time needed, and rating
- Utilizes MongoDB for data format and storage, Express.js for request handling and routing, Handlebars.js for dynamic web page templating, and HTML/CSS as well as Bootstrap and jQuery for the front-end of the site

Respect The 3 **December 2018**

- Wrote a tutorial on the analysis of the 3-point shot's adoption, impact, and success within the National Basketball Association, which walks users through the entire data science pipeline: data curation, parsing, and management; exploratory data analysis; hypothesis testing and machine learning; and final insights learned
- Uses Pandas and NumPy for manipulating data, scikit-learn for machine learning, Seaborn and Matplotlib for data visualization and informative statistical graphics, and SQL Joins for combining datasets

Helping Hand **December 2019**

- Developed an Android application with a team that helps users register for and post new volunteering opportunities as well as filter through the events by their preferred date, time, capacity, and miles away from their current location
- Utilizes Firebase Authentication and Realtime Database, an Expandable List Adapter to display the volunteering opportunities and their details, and the Google Play Services API to acquire and provide location details