Shad Khan

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Education

University of Maryland **College Park, MD**
B.S Computer Science – Dec. 2019, Business Analytics Minor *GPA: 3.420*

- **Relevant Coursework:** Data Structures, Data Science, Computer and Network Security, Algorithms, Artificial Intelligence, Organization of Programming Languages, Object Oriented Programming, Computer Systems, Full Stack Web Development w/ Node.js, Digital Product Design
- **Awards:** UMD President's Scholarship, Dean's List (Spring 2018, Fall 2018)
- **Organizations**: Resident Assistant at UMD Department of Resident Life, Kappa Theta Pi Professional Technology Fraternity, UMD College Park Scholars: Business, Society, and Economy

Work Experience

Fannie Mae
Incoming Software Developer Intern *June – August 2019*

General Dynamics Information Technology **Falls Church, VA**
Technical Services Intern *June – August 2018*

- Developed the frontend of internal FUSE sites in SharePoint with HTML/CSS, documented my code and redesign, as well as presented finished sites and communication procedures to project managers and site leads
- Used Agile Methodology to plan and execute tasks on projects

Projects

Recipes Crowd-Sourced Application **December 2018**

- Created a Node.js Recipes API and interactive front-end 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.

Threaded AVL Trees **October 2018**

- Implemented a data structure in Java which combines the ideas of a Threaded Binary Search Tree - which guarantees amortized constant time to find an in-order successor of a particular node, with an AVL Tree - which guarantees efficient lookup and insertion due to maintaining a balance of at most a height of one.

Technical Skills

Languages - Java, Python, Ruby, HTML/CSS, JavaScript, C, OCaml
Technologies - Node.js, Express, Handlebars.js, MongoDB, Bootstrap, jQuery, Git, Unix, Heroku, Pandas