Shamma Kabir

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Education

2014 - 2018 **University of Texas at Austin, B.S Electrical and Computer Engineering**, GPA: 3.61/4.00

Relevant Coursework: Introduction to Design Lab, Operating Systems, User Experience Design, Software Engineering and Design Lab, Data Science Lab, Engineering Communications, Software Design and Implementation I & II, Algorithms, Probability and Random Processes, Circuit Theory, Introduction to Embedded Systems, Discrete Mathematics, Linear Algebra

Technical Skills

Proficient: C, Java, Python

Familiar: Linux, Docker, LabView, C++, MATLAB, HTML, CSS, SQL, MXNET

Experience

Summer 2017 **Software Engineer Intern at Office of CTO**, Dell EMC

- Evaluated performance of machine learning frameworks (MXNET and TensorFlow) and NVIDIA GPUs through training deep neural networks on a large dataset
- Evaluated scalability of specific deep neural networks through distributed training
- Identified performance issues, bottlenecks, and more

Summer 2016 **Undergraduate Research Assistant Project**, University of Texas

- Used Docker containers to mimic a cloud environment and gain insight on an attacker-victim relationship between two devices on the same host
- Collected run-time and memory usage data and adapted an XGBoost model to predict victim's activity
- Used cross-validation to score final model, at the end predicted with accuracy of 90% and above

Projects

Spring 2017 **Video Game Recommender,** Data Science Laboratory

- Collaborated with three team members and used IGN dataset of users and gaming preferences to create a video game recommender based on a user's gaming history
- Implemented collaborative-filtering algorithm by encoding games and using K-Nearest-Neighbors and furthered it by using a genre to rank
- Analyzed change in video-game genre popularity (in terms of sales) from year to year

Spring 2017 **UT-Buy/Sell Trade Application,** Software Engineering and Design Laboratory

- Collaborated with three team members and developed an Android application that allow University of Texas students to buy and sell items in the UT community
- Functionalities included: account creation and verification (only utexas emails are allowed), customer-to-buyer messaging, searching for specific posts based on tags, uploading pictures through phone gallery, and more.

Academic Leadership & Involvement

Fall 2016 **Tutor/Mentor,** Ramshorn Scholars

- One-on-one tutoring for four freshman Electrical and Computer Engineering majors
- Tutoring in Introduction to Electrical Engineering (EE302) and Differential and Integral Calculus (M408C)
- Mentoring and guidance for success in engineering

2016 – 2017 **Treasurer,** Longhorns Against Drunk Driving
2016 – 2017 **Peer Assistant Leader**, Women in Engineering Program
2014 – 2015 **Representative at Student Engineering Council,** Women in Aerospace for Leadership and Development
2010 – 2014 **Recipient,** International Baccalaureate Diploma