Abhi **Dhir**

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Education

University of Texas at Austin   *GPA: 3.97*
PURSUING B.S. IN COMPUTER SCIENCE AND MATHEMATICS   *Aug. 2018 - Exp. May 2022*
- Relevant Coursework: Operating Systems, Computer Architecture, Data Structures, Statistics, Matrices

Work Experience

NCR   *Dallas, TX*
SOFTWARE DEVELOPMENT INTERN   *May. 2019 - Aug. 2019*
- Rewrote legacy back-end API of application (Aloha) used by thousands of restaurant managers across the US
- Upgraded API to .NET Core from .NET Framework, and deployed application to Linux Docker running in Azure for better performance
- Ran automated tests using Gatling on API calls such as logging in and executing stored procedures on restaurant databases

HomeAway   *Austin, TX*
DATA ANNOTATOR   *Jan. 2019 - Present*
- Annotated data and worked with text-based natural language processing
- Contributed to team of full time employees with data prep and sequence to a sequence machine learning model

Applied Research Laboratories   *Austin, TX*
SCIENCE AND ENGINEERING APPRENTICE   *Jun. 2018 - Aug. 2018*
- Implemented a PostgreSQL database using normalization techniques for the Space and Geophysics Laboratory's inventory
- Created data analysis tools using queries and views to make the previously cumbersome inventory system easy to use
- Automated '.hdf5' system log file generation and parsing for real-time database inserts using C++ and Python

City of Austin IT Department (CTM)   *Austin, TX*
SUMMER INTERN   *Jun. 2016 - Jul. 2016*
- Led team of other interns in development of and Android application (Asyst) related to elderly care
- Application connected citizens desiring a source of extra income with senior citizens in need of safe transportation and technical assistance
- Utilized Android Studio (Java and XML) in order to develop application as well as Firebase for the back-end

Projects

Portfolio Website | *React JS, Bootstrap*   *Aug. 2019*
- Personal portfolio website that I created using React and Bootstrap
- Includes API calls to github that dynamically generates a display of my pinned repositories

Measuring Repetition in Speeches using LZW | *Python, RStudio*   *May. 2018*
- Analysis of how repetition has increased over time in US presidential speeches
- Implemented the Lempel-Ziv-Welch compression algorithm in order to measure repition of words and phrases

UTLaundry | *Android Studio, Firebase, Microsoft Vision API*   *Oct. 2018*
- Android application which displays the availability of washer/dryers in the residence halls
- Updates laundry status through vision API which detects how much time is left with each machine, completed at HackTX

Skills

PROGRAMMING LANGUAGES

- Python (numpy, sklearn, pandas), Java, C++, C#, SQL, x86, R

WEB/MOBILE DEVELOPMENT

- Android Studio, React JS, HTML, Bootstrap, Git, LaTeX, .NET, Azure

Extracurricular Activities

Association for Computing Machinery at UT Austin (ACM)   *Austin, TX*
MEMBER   *Aug. 2018 - PRESENT*
- Focused on the advancement of computer science studies and research through events that serve its members and the community

Information & Systems Security Society (ISSS)   *Austin, TX*
MEMBER   *Aug. 2018 - PRESENT*
- Gained experience in cybersecurity through competing in CTFs every other Friday in addition to lectures and workshops