Abhi **Dhir**

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Education

University of Texas at Austin *Austin, TX*
FRESHMAN PURSUING B.S. IN COMPUTER SCIENCE *Aug. 2018 - Exp. May 2022*
- Relevant Coursework: Data Structures, Discrete Math, Vector Calculus

Liberal Arts and Science Academy *Austin, TX*
HIGH SCHOOL *Aug. 2014 - May 2018*
- Relevant Coursework: AP Computer Science, Advanced Computer Science, Web/Mobile Applications, Independent Study in Computer Science, AP Statistics, Multivariable Calculus

Work Experience

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, final project poster can be found on github

City of Austin IT Department (CTM) *Austin, TX*
SUMMER INTERN *Jun. 2016 - Jul. 2016*
- Lead 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, project video on youtube

Kynplex (Startup) *Worked Remotely*
INTERN *Mar. 2016 - May 2016*
- Collected and compiled data on hundreds of college research laboratories around the country
- Used Microsoft Excel automation to quickly organize information in the desired format

Projects

Observing Repetition in Speeches Over Time Using the Lempel-Ziv-Welch Algorithm
May. 2018
- Used Python and RStudio to analyze how repetition has increased over time in US presidential speeches, write-up found on github

Honors & Awards

2018	**National Merit Finalist**, College Board	
2017	**Nationals 1st Place: Hovercraft**, Science Olympiad Nationals	*Wright State, OH*
2017	**High School Aerospace Scholar**, NASA (Johnson Space Center)	*Houston, TX*
2018	**Platinum Division**, CyberPatriot	*Austin, TX*

Skills

WORKING KNOWLEDGE

- Python, Java, C++, Android Studio, Git, LaTeX, PostgreSQL, HTML, CSS, JavaScript, XML, JSON, Linux/Unix

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 *Austin, TX*
MEMBER *Aug. 2018 - PRESENT*
- Gained experience in cybersecurity through competing in CTFs every other Friday