Howard Wang

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Education

Rice University   Houston, TX
Master of Computer Science   Jan 2020 - Anticipated May 2021
- Probablistic Algorithms for Big Data, Compilers, Databases, Workplace Communication.

University of Texas at Austin   Austin, TX
B.S. in Mathematics   Aug 2014 - Dec 2018
- Coursework focused in Statistics, Applied Mathematics, Scientific Computing, and User Experience.

Washington University   St. Louis, MO
Computer Science Student   Aug 2019 - Dec 2019
- Data Structures and Algorithms, Intro to Machine Learning, Cloud Computing with Big Data, Database Systems.

Experience

Cirrus Logic   Austin, TX
Statistics Intern (Product Engineering Team)   Summer 2018
- Semiconductor company that specializes in analog/mixed-signal IC and designs audio products for companies such as Apple, Samsung, Motorola, and Sony.
- *Main Tasks*: Developed an internal web application (using R Shiny) used to analyze silicon wafers in Apple's devices and help engineers visually monitor false holds/false releases based on wafer bin limits.
- *Results*: Streamlined a difficult business problem and significantly reduced false release/holds of wafers.
- *Tools/Skills*: R, Python, C++, SQL, Oracle Database, Excel, Statistical Modeling.

SAS Institute   Cary, NC
Software Developer Intern (Visual Analytics Development Team)   Summer 2016 and Summer 2017
- Analytics software company that provide a suite of software to help other companies analyze, manage, and report data.
- *Main Tasks*: Fixed UI defects and worked on small features in SAS Visual Analytics and Visual Statistics. Presented poster of summer work at intern expo.
- *Results*: Improved user experience and fixed numerous high priority UI defects that significantly helped with release.
- *Tools/Skills*: JavaScript/TypeScript, HTML5, CSS, jQuery, OpenUI5, SQL, SAS, IntelliJ.

University of Texas at Austin   Austin, TX
Research Assistant (Linguistics Department)   Jan 2017 - May 2017
- Member of Billingual Anotations Task (BATS) research group that focuses on analyzing mixed language corpa.
- *Main Tasks*: Refactored and improved the performance of Python code. Created Visualizations using R.
- *Results*: Improved the time it takes to process large corpora by 10 to 15 percent.
- *Tools/Skills*: R, Python.

Technical Skills

Languages: R, Python, Java, JavaScript, C++, SQL
Big Data Tools: Hadoop, Spark, Hive
Version Control: Git, SVN
Dabase Management Systems: MySQL, Oracle, MongoDB

Summary

I am a current Master of Computer Science student at Rice University and a graduate of UT Austin. I am excited to apply my Mathematics and Computer Science background to data science, big data, and machine learning roles. I am passionate working on analytical software to help visualize and solve complex business problems. Please visit my website to learn more about my background and projects I worked on.