

Howard Lan

Email: howardjlan@outlook.com

Cell: (832) 600-7772

Citizenship: U.S.A.

LinkedIn: linkedin.com/in/howardjlan

Website: howardjlan.com

Education	Rice University Master of Computer Science, 3.76/4 <ul style="list-style-type: none">Coursework includes machine learning, data visualization, grad oop programming, cloud computing, databases, computer systems, and more. Rice D2K data science consultant. TA for COMP 680: Statistics.	Houston, TX June 2021
	The University of Texas at Austin Bachelor of Science in Mathematics, 3.60/4 <ul style="list-style-type: none">Coursework focused in statistics, applied math, scientific computing, and user experience.Activities: intramural soccer, math club, texas advanced computing center volunteer.	Austin, TX Dec 2018
Experience	Rice University Research Assistant (Computer Science Department) Member of Ray Simar's project on analyzing covid data (hsmar.rice.edu) based on seasonal patterns. <ul style="list-style-type: none">Created the interactive SEIR model using D3.js to model spread of the virus.Developed the about page content and worked on web development using React.Created interactive world maps using Tableau and the Johns Hopkins covid data.	Houston, TX Summer 2020–Spring 2021
	Cirrus Logic Data Science Intern (Product Engineering Team) Semiconductor company that designs audio products for companies like Apple and Samsung. <ul style="list-style-type: none">Developed a web app (using R, Shiny), from conception to completion, to analyze silicon wafer data and help engineers visually monitor false holds/false releases rates based on wafer bin limits.Consulted with product engineers, database administrators, and statisticians to design UI.Improved the speed of markov chain monte carlo algorithm greatly by using Rcpp and C++.Wrote complex SQL queries to retrieve silicon wafer data from Oracle database.Analyzed silicon wafer data using Python and Excel.	Austin, TX Summer 2018
	SAS Institute Software Developer Intern (Visual Analytics Team) Analytics software company that provides a suite of software to help analyze, manage, and report data. <ul style="list-style-type: none">Fixed over 30 high priority UI defects and worked on features in SAS Visual Analytics working with JavaScript/TypeScript, HTML, CSS, jQuery, and OpenUI5.Presented poster of summer work at intern expo to other interns and company leaders.Participated in A/B testing to help improve product usability.Collaborated with software developers, testers, managers, ux designers, and technical writers.	Cary, NC Summer 2016 and 2017
	The University of Texas at Austin Research Assistant (Linguistics Department) Member of a research group that focused on analyzing mixed language documents. <ul style="list-style-type: none">Refactored Python code to improve maintainability.Increased the time to process large corpora significantly by using Python multiprocessing.Created visualizations and plots in R.	Austin, TX Spring 2017
Skills	Languages: Python, R, Java, JavaScript, HTML, CSS, C++, SQL. Big Data Tools: Hadoop, Spark, Hive. Data Visualization: Python (Matplotlib, Plotly, Seaborn), R (ggplot, Plotly), Tableau. Database Management Systems: MySQL, Oracle, MongoDB.	