

Howard Lan

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Education	Rice University	Houston, TX
	Master of Computer Science, 3.76/4 • 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.	June 2021
	The University of Texas at Austin	Austin, TX
	Bachelor of Science in Mathematics, 3.60/4 • Coursework focused in statistics, applied math, scientific computing, and user experience.	Dec 2018
Experience	Rice University	Houston, TX
	Research Assistant	Summer 2020–Spring 2021
	Member of Ray Simar’s project on analyzing covid data (hsmar.rice.edu) based on seasonal patterns. • Created 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.	
	Cirrus Logic	Austin, TX
	Data Science Intern Semiconductor company that designs audio products for companies like Apple and Samsung. • Developed a web dashboard (using R, Shiny) to analyze silicon wafer data and help engineers visually monitor false holds/false releases rates based on wafer bin test limits. • Consulted with product engineers, database administrators, and statisticians to design UI. • Applied unsupervised learning algorithms (mixture model, k-means clustering) to classify wafers. • Improved speed of mcmc algorithm greatly by using Rcpp/C++. • Wrote complex SQL queries to retrieve silicon wafer data from Oracle database. • Analyzed silicon wafer data using Python and Excel.	Summer 2018
	SAS Institute	Cary, NC
	Software Developer Intern	Summer 2016 and 2017
	Analytics software company that provides a suite of software to help analyze, manage, and report data. • Fixed over 30 high priority UI defects and worked on features in SAS Visual Analytics working with JavaScript/TypeScript, HTML, CSS, jQuery, and OpenUI5. • Built models using linear/logistic regression, decision trees, random forests, neural networks, etc. • 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.	
	The University of Texas at Austin	Austin, TX
	Research Assistant	Spring 2017
	Member of a research group that focused on analyzing mixed language documents. • Applied NLP (hidden markov model, LASER, etc) to multilingual documents. • Refactored Python code and created visualizations (word clouds) with Python and R.	
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. Machine Learning and Data Analysis: Python (pandas, scikit-learn, tensorflow, pytorch).	