Ryan Beauchemin

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Experience

Aug 2020 - Current	**Senior Manager Data Science and Analytics,** *Lowe's Home Improvement*
	Now, I am responsible for the Data Science portfolio for Merchandising and Marketing at Lowe's and lay out the roadmap and direction for Data Science, Data Engineering, Software Engineering and Analytics teams for related products. We have released multiple full stack applications to production and have automated CICD pipelines that ultimately utilize the power of Kubernetes on Cloud.
Jul 2019 - Aug 2020	**Principal Data Scientist,** *Lowe's Home Improvement*
	I worked to enhance the potential of my small team, continuing the build of the Assortment Planning Suite utilizing machine learning models built to identify localization opportunity from customer behavior, and built customer profiling and clustering for marketing. I continued to provide technical expertise and training to the core data science team.
Dec 2017 - Jul 2019	**Senior Data Scientist,** *Lowe's Home Improvement*
	I had the opportunity to select and grow a team of 6 to build out an Assortment Planning Suite for Merchandising from scratch. I also had the opportunity to form the Data Science team responsible for recommendations and personalization to take over my previous work. I learned and shared knowledge on Agile methodology and cloud-based systems to align with modern practices.
Feb 2017 - Dec 2017	**Data Scientist,** *Lowe's Home Improvement*
	Switching from a dot com support to enterprise-wide support, I had the opportunity to interview and hire to start building the data science practice at Lowe's. During this time, I automated product recommendations algorithms bringing more than 13% improvement in incremental sales (A/B measured) over one year. The enterprise shift led us to open many new connections and work on projects across new organizations.
Aug 2015 - Feb 2017	**Data Analyst / Web Analyst,** *Nabler / Lowe's Home Improvement*
	Starting on a team of 3 analysts at Lowes' dot com division, I created algorithms utilizing product and user data to provide visitors with intelligent and personalized recommendations. I created feedback loops trained on orders, cart additions, and revenue to optimize the experience. My work added so much additional revenue that we could start building data science as a practice at Lowe's.
Jun 2014 - Aug 2015	**Astrophysicist,** *UNC Physics and Astronomy*
	As a part of the RESOLVE team under Dr. Sheila Kannappan, I was responsible for dynamic observation, reduction of data, and instrumentation on the 4.1-meter Chilean SOAR telescope, and my research involved determination of three dimensional information from two dimensional projections of galaxies, finding standard assumptions to be wrong.
Jan 2014 - Aug 2014	**Astrophysicist / Teaching Assistant,** *UNC Physics and Astronomy*
	In Dr. Dan Reichart's group, I worked with a strong team to create the largest database for Gamma Ray Burst afterglows, working heavily with spreadsheets and data manipulation in a massive SQL database. I was also an undergraduate teaching assistant in the lab component of the Astronomy courses at UNC.
Jun 2013 - Oct 2013	**Research Assistant,** *NC Astronomy Research Center*
	I designed informative videos using iMovie and Keynote, gave presentations on solar phenomena with an $H\alpha$ filtered solar telescope, and developed tools to determine intrinsic properties of spiral galaxies. In 2017, our team was featured when a galaxy I discovered and imaged was determined to be the first ever discovered Double Hoag's galaxy.

Education

2022	MS Computer Science, *Georgia Institute of Technology*
2015	BS Physics, *University of North Carolina at Chapel Hill*

Proficiencies

Programming	**Python**, Regex, Shell
Frontend	**React**, Flux/Redux, JavaScript, Jenkins, Node
Backend	**NodeTS**, NodeJS, express
Data	**Phoenix HBase**, **Hive**, HDFS, Teradata, PostGres
CICD	**Git**, **Jenkins**, Spinnaker, GCR, Oozie
Cloud	GCR (+Docker), GCS, Kubernetes Engine, BigQuery, BigTable