Ryan T Johnson, PhD

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My expertise is in leading advanced data science, engineering, and analytics teams.

Experience

Credera, Board Member, AI and Ethics Advisory Board - 7/2023 to present

- Advising on AI direction for a global IT services company

GoGuardian - a $110M SaaS B2BC serving over 25M users

Senior Director, Data and AI - 7/22 to 1/24

- Improved key metric of $40M ARR product by 95% using AI-augmented labeling pipelines
- Implemented retrieval-augmented generation to produce content dropping costs from $7M to $150K while also improving content quality
- Transitioned company to new ML Ops system reducing costs by 35%+ for multiple products
- Led company hackathon resulting in 9 generative AI features added to product roadmaps
- Led early development of 5 LLM-based tools and features
- Presented AI strategy to board and other portfolio companies upon request of investors
- Maintained an average monthly employee retention of 99% over 5 years

Director, Science and Analytics - 9/19 to 7/22

- Grew data science from 5 to 13 and data engineering from 2 to 15
- Grew business intelligence from 1 to 6 to provide business insights to company leadership
- Partnered with GTM and finance teams to define and track over 10 critical revenue KPIs
- Oversaw construction and delivery of an enterprise data lake
- Led cross-company data integration efforts after 4 acquisitions
- Partnered with Head of Privacy to build out a company privacy strategy and anonymized data infrastructure

Head of Data Science - 4/18 to 9/19

- Grew data science from 1 to 5 at an early-stage EdTech software development company
- Shipped 12 NLP ML models into production serving 4 billion inferences per day
- Oversaw development and delivery of new ML launching a $10M ARR product line

Centerfield Media, Vice President of Data Science - 2/17 to 2/18

- Reported to CTO and improved CTR prediction accuracy by 15% using neural networks
- Improved revenue attribution by 21% using logistic regression
- Reduced false-positive errors in automated A/B testing by over 20%

Big Ass Solutions

Head of Data and Analytics - 5/15 to 12/16

- Built a team of 17 data scientists, data engineers, BI analysts, and researchers analysts
- Led construction of initial data warehouse in Microsoft Azure in under 3 months
- Oversaw development of novel IOT data pipelines working directly with AWS partners
- Partnered with marketing to bring them from zero data to known campaign ROI

Data Scientist - 1/15 to 5/15

- Developed and tracked KPIs for marketing and revenue teams
- Developed custom demand forecasting, campaign attribution, and revenue forecasting algorithms

The MIND Institute, Ruth L. Kirschstein Researcher - 8/11 - 12/14

- Developed Matlab, R, and bash scripts to programmatically analyze massive set of MRI data
- Found clinically meaningful subgroups using machine learning and general linear models
- Communicated findings to directors and team leads
- Prepared scientific publications of my findings

Education

Ph.D., Neuroscience, Michigan State University

MA, Experimental Psychology, The College of William and Mary

BA, *Cum Laude* Experimental Psychology, The University of Tennessee

Skills

Python, R, SQL, Machine Learning, Statistics, General Linear Models, Terraform, AWS, Data Modeling, Data Architecture, ML Ops, Data Governance, Business Analytics, Predictable Revenue KPIs

Selected Honors and Awards

U.S. Patent #11,779,838. Georgia-Evangelia Katsargyri et al. 2023, *Apparatus and method for identifying digital gaming activity based upon anonymized keystroke data*.

Invited speaker, Southern California CTO Forum 2021

Invited speaker, DataCon LA 2020

National Institutes of Health National Research Service Award, 2008 and 2012

Research Fellowship, The MIND Institute at the UC Davis Medical Center, 2011-2015

References

Tyler Shaddix, Chief Innovation/Product Officer, GoGuardian - tshaddix@goguardian.com

Mike Jonas, former Chief Financial Officer, GoGuardian - mtjonas@gmail.com

Jenny Zhao, former Chief Technology Officer, GoGuardian - zhz212@gmail.com

Alexandra Diamond, Staff Engineer, Netflix - alexandradiamond@yahoo.com