

Jason Sadowski

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Experience

Pathr.ai

Jan 2020—Present

Director of Technology

Nov 2023—Present

- Reported directly to CEO, oversaw all aspects of customer facing product: product roadmap, video processing, computer vision, data science, databases, deployment infrastructure, and BI dashboards.
- Supervised 3 direct reports and guided technical work for 4 others across remote engineering, data science, and data analytic teams while contributing to Python packages, MLOps pipelines, and data science at the edge.
- Managed vendors for BI solutions (PowerBI, Tableau), cloud infrastructure (Microsoft, Google) and data annotation. Streamlined vendor onboarding by minimizing technical barriers, enabling operations at scale.
- Spearheaded engineering initiative to automate edge deployment process using a PostgreSQL database with an artifact retrieval API. Reduced time to deployment by 1 hour per site and enabled creation of kubernetes edge stack which completely eliminated manual edge deployment time.
- Collaborated with computer vision and engineering on cross-functional initiatives for shoplifter classifier and person reidentification models, using machine learning, transformers, and computer vision. The new products delivered direct customer ROI and led to new customer verticals (QSR, LP).
- Worked internally with operations and engineering to identify new opportunities for deployment optimization, reducing time spent per edge deployment by approximately 30 person hours.

Director of Data Science

Nov 2021—Nov 2023

- Headed end-to-end product development including: computer vision, machine learning, and BI dashboards.
- Operationalized ML classifier training and data QA in collaboration with engineering and operations using FastAPI, Jinja and custom scripting. Reduced operations time to fine-tune classifiers from 16 hours to 1 hour.
- Managed data annotation vendor and contractor relationships for outsourced technical products, responsible for integrating contractor work into production stack after overseeing QA tests.
- Built a high performing technical team with a culture of open communication and collaboration. Led the hiring process for technical team members, consulted on data operations interviews.

Data Scientist

Jan 2020—Nov 2021

- Served as 3rd employee and 1st data scientist, responsible for the data science stack from prototype to production.
- Built custom analytic algorithms for 6 customers and 11 different use cases. Improved model accuracy from 85% to >90%. Documented best practices for contributing to data science stack.
- Created state of the art customer-employee interaction classifier using recurrent neural networks, support vector machines, and hidden markov models. Classifier became part of Pathr's core product offering for retail.

UC Davis

Graduate Student Researcher - Marine Ecology, UC Davis

Sep 2013—Sep 2019

- Authored and co-authored 4 scientific publications, received >\$100k in grant funding, created award-winning presentations, and collaborated with federal researchers on shark tracking projects.
- Quantified that climate change can reduce oyster yield by 27% using ANOVA, multivariate linear regression, and principal components analysis to account for environmental factors. Used by public-private partnership between UC Davis and local oyster growers to optimize growing conditions.
- Served as President of Bodega Marine Science Association and on Chancellor's Graduate and Professional Student Advisory Board. Improved graduate student resources at satellite campuses by advocating for and establishing initiatives like resource reports, public shuttle cars, subsidized housing, and new leadership roles.

Education

University of California, Davis	Sep 2019	PhD	Ecology
Rutgers University, New Jersey	May 2012	B.S.	Ecology and Natural Resources / Biological Oceanography

Skills

Languages Python, Golang, SQL, Bash, R

Orchestration Docker, Airflow