

# T.J. Bay

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## SUMMARY

Data scientist experienced in end-to-end data products, predictive analytics, and machine learning.

## EXPERIENCE

**Senior Data Science Engineer 2020–Present, Sojern** Building microservice-based machine learning systems to optimize travel-based ad campaigns.

**Co-founder and Co-organizer, 2015–present, SF Big Analytics meetup** SF Big Analytics has over fifteen thousand members, making it one of the largest tech meetups, and has featured several well-known speakers. Taught a three-part workshop: introduction to deep learning.

**Senior Data Scientist 2017–2020, Ask Media Group** Built microservices and data pipelines to support many parts of the company: NLP on search queries, ad campaign optimization, text clustering to find gaps in original content coverage, and web scraping.

**Lead Data Science Advisor 2014–2017, Alpine Data** Data science consultant to Alpine customers. Selected projects: Led development of a Python API wrapper, lead developer for machine learning algorithm correctness testing framework, solved customer use-cases, developed and taught a four-week machine learning class to the Alpine engineering organization.

**Data Science Instructor 2016–2017, Metis** Taught two cycles of a six-week Introduction to Data Science class.

**Adjunct Professor, 2011–14, Various** Taught astronomy at Stanford, U.C. Berkeley and SFSU as an adjunct professor. During this time period I also worked with the non-profit Tutorpedia Foundation that provides free math and science tutoring to children from low-income families.

**Physicist, 2007–2011, Stanford University** Studied the microscopic behavior of gravity to search for compact extra dimensions. Relevant duties include analysis of time-series data, real-time visualization, and reduction of data to measure the weight of the Earth.

## SKILLS

**Data** I am proficient in the Python data science stack including scikit-learn, pandas and Jupyter as well as SQL, Git, Gitlab and Github, AWS, GCP, Docker, PyCharm, and Postman. I have experience with distributed computing and machine learning using Spark and dask. I also have some lesser or more distant experience with Scala, Solr, Matlab, R, and Pig.

## EDUCATION

**Ph.D. Physics, Stanford University** - Advances in the optical imaging transition-edge sensor array

**B.A. in Physics, Mathematics and Integrated Science, Northwestern University**