

Peter Jourgensen

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SUMMARY

Versatile data scientist and software engineer with 5+ years of experience designing, developing, and deploying data-driven product features to meet a business's needs. Core accomplishments of current role include deployment of company's first search ranking model resulting in 17% reduction in validation time and optimization of search query executions resulting in up to 40x decrease in response times. Eager to partner with stakeholders to strategize robust data solutions to ever-evolving problems.

PROFESSIONAL EXPERIENCE

Senior Software Engineer, Data Science & Search, Deep6 AI | Los Angeles, CA 2022 – present

Data Scientist, Deep6 AI | Los Angeles, CA 2020 – 2022

- Designed and developed company's first patient match quality model incorporating insights from extensive error analysis and SME interviews; reduced patient validation time by ~17%
- Partnered with Ops team to design and implement federated learning pipeline in AWS for training and optimization of match quality model
- Analyzed and profiled elasticsearch queries; discovered and addressed execution inefficiency resulting in up to 40x decrease in response times
- Developed spark-scala data pipeline to modernize medical knowledge source; increased structured data coverage by 12%
- Automated deployment and integration testing of search index via AWS CDK and github actions; reduced time taken for production deployment from 1 week to half of a day

Graduate Research Assistant, UCLA Department of Statistics | Los Angeles, CA 2019

- Constructed CNN with Keras for prediction of US heatwave events based on Pacific Sea Surface Temperatures
- Developed pipeline to detrend and deseasonalize data; leveraged numpy and xarray libraries for vectorized computing and memory management
- Achieved an ROC score of 0.78 when predicting abnormal heat events up to 56 days in advance

Trader & Quantitative Analyst, Valkyrie Trading, Llc | Chicago, IL 2015 – 2018

- Performed quantitative analysis to contribute to advancing company's automated trading strategy
- Trained 2 junior traders and led them in the execution and risk management of fixed income options

PROJECTS

Route Scout: A search engine for climbers | Los Angeles, CA 2015 – 2018

- Designed, developed, and deployed a novel web app that makes climbing routes a free text searchable entity
- Constructed a Postgres database of all Southern California bouldering routes (4000+ routes) via web scraping and requests to public APIs
- Implemented NLP pipeline to clean and standardize route descriptions before vectorizing and ranking by similarity to search request

SKILLS & CERTIFICATIONS

Python, Kotlin, Scala, Spark, AWS, Elasticsearch, SQL, Git, Search, Recommendation, NLP, A/B Testing

Machine Learning Engineering (MLOps) for Production Certification | Coursera 2022

EDUCATION

University of California, Los Angeles | Los Angeles, CA | 2019

M.S. Computer Science

Northwestern University | Chicago, IL | 2015

B.S. Applied Mathematics