Boris Dev, Cloud Consultant II, AI/ML, Professional Services - United States

Tool Stack

- **Data Analytics:** SQL, Python, SQLAlchemy, Pandas, PySpark, Git, GeoSpatial Stats & Maps, Social Science Data, Tableau
- **Infra:** Prometheus, Grafana, Splunk, ELK, Docker, Kubectl, Distributed Tracing
- **Data Pipelines:** Jenkins, Kafka, SQLAlchemy, Postgres[GIS]
- **Data Science:** Pandas, Sklearn, Numpy, Plotly, PySpark, DataBricks, Jupyter, SageMaker, PyTorch, GroundTruth
- **Langauge AI:** LangChain, PydanticAI, InstructorAI, LLMs (OpenAI, Anthropic, Gemini), LangSmith, Prompt Engineering, Embedding DBs (Weaviate, ElasticSearch), Fine-tuning base with hard examples in Sentence Transformers

Education

PhD in Quantitative Human Geography, at SDSU and UCSB, 2015. Data science for location referenced social science problems. Dissertation: Assessing Inequality using Geographic Income Distributions

Experience

EcoR1, 2025 - current, Data Science Engineer Contractor

- Building AI automation research tools for a biotech hedge fund.

Nobsmed, 2024 - current, Founder

Built https://nobsmed.com/ for users to search for biohacking experiences found in clinical studies and Reddit comments.

- ETL: Language AI parsing of 100,000 studies and 1,000,000 Reddit comments.
- Topic modeling: Extended Bertopic using LLM for naming and classification of outliers, bertopic-easy.
- Customer discovery and user interviews.
- Experimented with fine-tuning opensource embeddings model and ML classification.
- Prompt engineering using InstructorAI.
- Embedding DBs for search (Weaviate, ElasticSearch).

AI Engineer consultant at Wolf Games, 2023

- Built an automated DAG of LLM prompts for story generation

- Worked closely with the CTO on requirements
- Built the story generation Flask API service

AI Engineer consultant at Intuitive Systems, 2023

- NED (Name Entity Disambiguation) of vendor receipts fed into AMD's sales analytic pipeline. Used LangSmith for evaluation.

AI Engineer consultant at SimpleLegal, 2022-2023

SimpleLegal is a legal billing analytics company.

- launched a previously stuck AI feature to flag invoice billing discrepancies
- was first to provide metric documentation at the meetings
- trained 8 ML classification models to flag suspicious invoice line items
- redesigned and managed 5 workers on the annotation pipeline of the labels
- built the inference server (SageMaker, PyTorch) and its product integration

Lead Analytic Endpoint Engineer at Sight Machine, 2018-2021

Sight Machine is a manufacturing analytics company.

- led backend engineering on biggest public facing analytic feature
- coordinated QA process with sales and engineering
- built company's first distributed tracing
- containerized frontend engineering development environment

Lead Data Engineer at HiQ Labs, 2015-2018

HiQ Labs was a people analytics company.

- built and owned the scraping system and observability (Splunk)
- led the migration from a monolith to a micro-service paradigm
- supported the data science team's migration to DataBricks PySpark and microservices

Developer at Urban Mapping, 2011-2013

Urban Mapping provided geospatial analytics to Tableau.

- Formulated first map rendering and query performance metrics integrated into our CI/CD pipeline

Impactful projects

- persuaded team that our culprit was data quality, not data quantity, to get a stuck AI feature launched.
- proposed and built observability systems to reduce firefighting.
- proposed and built containerized FE dev env for faster onboarding.

Papers and code

- LLM Topic Modeling: bertopic-easy.
- Language AI Evaluation 101: Know your user
- Langchain PR: Causal Program-aided Language (CPAL). See Harrison Chase's Tweet.
- Work papers
- Academic papers