akai.senghor@gmail.com

Akai Senghor

San Francisco Bay Area

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Technical Skills

Strong: Python, Pandas, Numpy, Seaborn, Matplotlib, scikit-learn, SQL, Pydantic AI, uv, Data Modeling, Context Management, Agent Evaluation, Agent Integration, Prompt Engineering, RAG, Neo4j, Cypher, Logfire
Experienced: Typescript, HTML, CSS, PostgreSQL, React, git, statsmodels, PyTorch, Dash, FastAPI

Projects

California Political Knowledge Map

An LLM-built knowledge graph of California politics from news reporting (Python, Pydantic AI)

- Built a pipeline turning CA political news into a Neo4j knowledge graph with source provenance
- Made scrapers self-heal via JSON-LD validation and an LLM generator/critic selector loop
- Filtered article relevance with keyword rules and an LLM agent guided by examples
- Shipped a FastAPI Q&A app fusing full-text, vector, and LLM-generated, validated Cypher search
- Iterated on prompts and code by reviewing failures and rerunning LLM evals, primarily on silver sets

Political Shift

A choropleth map visualizing the presidential voting 2000 to 2020, and how that voting has changed

- Gathered, cleaned a dataset for 3000+ counties in the USA for the 6 most recent presidential elections
- Used Dash to visualize how counties have voted and how that voting has changed between elections

Professional Experience

Quarterwave - Contract Full Stack Developer

Engineering firm specialized in developing traveling-wave tube amplifiers June 2018 - October 2019

- Responsible for the design and implementation of a process management and inventory system
- Created Dockerized backend powered by GraphQL for greater control over diverse data sets
- Designed frontend using React and Apollo allowing for a seamless and instant app experience
- Constructed touch screen interface powered by D3 and Node to integrate directly into amplifiers

ZipZap - Contract Full Stack Developer

International remittance platform designed for low-wage earners May 2017 - October 2017

- Refactored front-end to reduce backend load reducing API calls by ~15%
- Implement seamless payment gateway utilizing the Paysafe API
- Debugged front-end data structures to smooth UX in React

Education

University of California Santa Cruz, *Bachelor of Science - Mathematics, Cum laude* 2022-23
Relevant coursework: Chaos Theory, Linear Algebra

Santa Rosa Junior College, *Associate for Transfer - Mathematics* 2020-2021
Relevant coursework: Intro to Linear Algebra, Intro to Statistics

Hack Reactor, *Advanced Software Engineering Immersive Program* 2016

Santa Rosa Junior College, *Computer Science* *2013*
Relevant coursework: Intro to Computer Programming, Data Structures and Algorithms

San Diego State University, *Computer Science* *2011-2013*
Relevant coursework: Assembly Language Programming, Intro to Java