Geoffrey Yang

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Geoffrey is a full-stack engineer seeking an individual contributor role in financial services. At his current role, he leads data management initiatives for capital markets, insurance, and asset management organizations - clarifying opportunities to monetize data assets. He is a former finance practitioner with deep expertise in capital structures, lending, and structured products.

EXPERTISE
Javascript (React, Redux, Node, Express). Python (Flask, SQLAlchemy, Pandas). Docker. Metadata Management. Data Governance.

EXPERIENCE

Element22, *Senior Technology Associate*   New York, NY   June 2018-Present
- Project lead on a multi-year program to establish enterprise data management capabilities and improve access to data for a large wealth management operation. Designed the strategy, operating model, and roadmap for this initiative, as well as built custom software applications that bridged to full-scale enterprise tools (a data asset catalog with demand management features and a metadata collaboration application).
- Performed strategic reviews of data assets for a USD 25 billion acquisition, laying out a high-level integration plan and roadmap for the merger.
- Authored conceptual and semantic business ontology data models describing Users and Accounts for a major US insurer. These designs will underpin the future development of a next-generation knowledge graph.
- Defined business requirements and metadata content for enterprise software solutions from Oracle, Informatica, and Ab Initio.

Debtwire, *Database Manager*   New York, NY   March 2011-February 2017
- Led content and product development for a leveraged loan data feed, expanding coverage of the debt market from concept to standalone product.
- Built the internal tooling to manage this product with Postgres, Javascript, Express, and HTML.
- Regularly authored research and analysis on corporate capital structures and bankruptcy situations.
- Served as the business intelligence lead for the publication, creating reporting tools in Python to track traffic and productivity metrics.

BNP Paribas, *CLO Origination & Asset Securitization Analyst*   New York, NY   March 2006- November 2007
- Analyst on the bank's ABS/CDO/CLO origination desk – helped customize the group's performance prediction model in VBA - priced the bank's first CLO structure in North America.
- Focused on creating cash CLO structures - sizing tranches and setting performance triggers to meet ratings agency criteria as well as investor needs for return; presented structure in risk control group meetings to gain approval for business.
- Tracked monthly performance of auto, trade and CDO/CLO securitizations purchased into group's asset-backed commercial paper conduit.
- Performed loan level credit analysis on pools of residential mortgages and corporate high yield debt, projected asset cash flows and cumulative default risks using structuring models.
- Provided analysis for hedging outstanding leveraged loan balances when credit markets soured in 2007.

PROJECTS

Hospitalprices.info (Flask, SQLAlchemy, React, Redux)   **Live Site |Github**
- A fast and responsive full stack data tool that tracks pricing of hospital services and procedures, seeking to bring healthcare price transparency to consumers.
- Application design relies heavily on a fast Redux store to manage all rendering logic, resulting in a centralized and organized codebase.

EDUCATION

Carnegie Mellon University, *Bachelor of Science, B.S.*   Pittsburgh, NY