

Joseph Gambino

Creative Developer

Product Designer

Contact

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Education

Northwestern University

Mechanical Engineering
Certificate of Design
Co-op Certificate
Class of 2014

Metis

Data Science Bootcamp
Fall 2017

Skills

Languages

Python, C
SQL, SQLAlchemy
Javascript, Typescript
React, NextJS

Tools & Libraries

GCP, AWS, Heroku
Git, GitHub, CI/CD
Postgres, MongoDB
Flask, FastAPI, PyTorch
Scikit-learn, Pandas
Streamlit, Docker
NetworkX, OSMNX
LangChain, ChromaDB

Focus Areas

Simulation & Modeling
Algorithm Prototyping
Geospatial Analysis
API Dev & Documentation
Unit Tests
Network Theory

Handiwork

SolidWorks, Fusion360
CAM, CNC, Knee Milling
Injection Molding
Laser Cutting, 3D Printing

Pneumatic

Freelance Developer

2024 – present

Automated Document Generator Leading the development of a retrieval augmented generation (RAG) product for a multinational law firm that automates drafting for a family of legal documents.

IDEO

Senior Data Scientist & Design Lead

2018 – 2024

Content Personalization Led the design and implementation of a bespoke recommendation engine for a mental health app that married machine learning with deliberate curriculum-driven guidance.

Revenue Prediction Using IDEO's historical sales and pipeline data, built a revenue prediction model to inform leadership decisions, prioritize resources, and inform future record-keeping strategies.

IdeoDB Wrote a custom ETL package (in SQLAlchemy) to extract data from internal ERP systems, consolidate into recognizable entities, and stand up a SQL database containing only what the user requests. Led the development of several new internal tools using the system.

Fast Food Drive-Thru Simulator Developed the algorithm and interface of a custom traffic simulation to model vehicles in a drive-thru. Incorporated kitchen data to study how different order-taking concepts affected throughput, employee utilization, and slack in the system. Proved that concepts relieved demand on employees' time without slowing down service.

Vehicle Electrification Designed alongside and built a web app (which is still in use) for non-technical salespeople to independently analyze customer data and deliver recommendations. Wrote the technical and design roadmap for how this prototype can be a vehicle for broader digital transformation within the company.

Recommendation Engine Game-ified a recommendation algorithm to demonstrate to the client how recommendation engines learn over time and how – rather than replacing their staff – the tools will work best with them in control. Wrote the predictive models and Flask backend.

Workout Data On a hyper-short timeline, analyzed customer data to discover patterns of use, proved why current metrics were misleadingly simple, and delivered an archetypal framework for prioritizing user interviews. Convinced client to leverage their own data scientists' curiosity.

BabelFish Built a custom Slack app to translate messages in channels where Japanese-only and English-only speaking colleagues were collaborating.

Innovation Workshop Developed and co-led a two-day workshop for corporate employees of a fast food giant to re-live on-the-ground research and interactively prototype new kitchen layouts. Expensed chicken nuggets.

Package Delivery Driver Led the data science efforts of a fake start-up set up as an ongoing research experiment. Translated hypotheses into an experiment design, then a "business model" and operations plan. Wrote a custom staff and inventory management tool in React. Project managed external developers. Led and synthesized design research interviews to modify the experiments throughout. Set up a field office. Hand-delivered packages. Crafted the final story convincing the client to invest in the industry, concept, and research capabilities.

Verena Solutions

Lead Mechanical Engineer & Product Designer

2015 – 2017

Product Development Took the founder's concept from brainstorm to manufactured product. Cultivated relationships with key customers to include them in repeated rounds of user testing. Prototyped, iterated, and designed for injection molding the novel needle and safety cap device. Courted and pitched investors and grew manufacturing partnerships.

Consulting Built out the consulting arm of the company through active networking and advising prospective clients. Quoted and scoped projects, vetted and managed subcontractors. Delivered numerous early-stage prototypes, helping start-ups research users and raise funds.