

Atilio Barreda II

data.atil.io | github.com/lolusername

SKILLS

Languages: Python, JavaScript/TypeScript, SQL

Frameworks: FastAPI, Vue/Nuxt, Svelte, D3.js

Databases: PostgreSQL, MongoDB, Elasticsearch

Tools: Docker, Git, CLI/Bash, NumPy, Pandas

Cloud: AWS (ECS, S3, Lambda), Firebase,

Supabase

Other: Spanish, Adobe Creative Cloud

EXPERIENCE

Freelance Software & Data Engineer, Studio Miski — Remote

Jan 2020 – Present

- Designed and launched an email document analysis platform indexing 125K+ PDFs; reduced search time from 10 min to under 1 min and enabled same-day research sprints.
- Developed RESTful APIs with FastAPI & Elasticsearch and deployed containerized services on AWS EC2, ensuring scalability and high performance.
- Built custom data-processing and visualization tools for non-profit and academic partners, democratizing access to complex datasets.

Senior Software Engineer, Global Healthcare Exchange — Remote

Jun 2023 – Jun 2024

- Engineered interactive analytics dashboards in Vue backed by Django REST APIs, empowering hospital administrators and physicians to make data-driven decisions.
- Partnered with design and client stakeholders to prototype dashboards in 2–4 days, accelerating feedback loops and reducing wasted build time.

Adjunct Lecturer, NYC College of Technology — Brooklyn, NY

Aug 2020 – Present

- Designed and taught 5+ courses (Intro Data Science, ML Fundamentals, Database Administration, Intro NoSQL, Intro Computing) using project-based pedagogy.
- Coordinated Open Educational Resources (OER) initiatives to develop, integrate and publish free course materials; leveraged data analysis to assess impact and improve accessibility.

Frontend Engineer, Calvin Klein — New York, NY

Jun 2019 – Jan 2020

- Automated image asset creation pipelines with JavaScript & Adobe InDesign scripting; cut production effort by 20%, saving ~12 hours per campaign and enabling designers to focus on art direction.
- Maintained brand-consistent web properties using modern JavaScript, jQuery, and CSS; collaborated closely with art directors on digital campaigns.

Frontend Engineer, IBM Turbonomic — Boston, MA

Jul 2017 – Jun 2019

- Replaced manual FTP edits with a Git-based WordPress workflow on AWS; implemented versioned rollbacks and reduced publish cycles from hours to 15 minutes.
- Developed scalable themes and components using SCSS and modern front-end tooling.

User Interface Engineer, Sentient Jet — Quincy, MA

Jun 2015 – Jul 2017

- Designed and implemented internal dashboards using AngularJS; consolidated flight operations metrics (scheduled & flown trips, empty legs, revenue) into a single interface, reducing reliance on third-party tools.

EDUCATION

M.S. in Data Analysis & Visualization, CUNY Graduate Center (2021 – 2025)

Capstone: Multi-Document Graph Visualizer – integrated BERT, BERTopic & spaCy with D3.js to visualize relationships across large text corpora.

B.A. in Modern Culture & Media, Brown University (2008 – 2012)