# ATILIO BARREDA II

data.atil.io | github.com/lolusername

## SKILLS

Languages: Python, JavaScript, TypeScript, SQL
Frameworks & Tools: FastAPI, Svelte, Vue, Nuxt, Vite, Node, CSS, Docker, Redis, Git, CLI, Elasticsearch, NumPy, Pandas
Cloud/Infra: AWS (ECS, S3, Lambda), Firebase, Netlify, Supabase
Other: Experience mentoring junior developers; adjunct teaching in data science

## EDUCATION

MS Data Analysis and Visualization, CUNY Graduate Center, 2021 - 2025
BA Modern Culture and Media, Brown University, 2008 - 2012

## EXPERIENCE

**Freelance Software Engineer – Studio Miski**
January 2020 – Present
• Led the design and implementation of an email document analysis platform for Data for Black Lives, enabling real-time search and analysis of 125,000+ email PDFs
- Built OCR pipelines using Tesseract for scanned documents, preserving email structure and metadata
- Developed RESTful APIs with FastAPI and Elasticsearch for high-performance search capabilities
- Deployed production-ready services on AWS EC2 using Docker, Nginx, and Let's Encrypt SSL, ensuring scalability and security
• Partnered with nonprofits and academic labs to deliver end-to-end solutions, including data visualization, data ingestion, and AWS deployment

**Adjunct Lecturer – New York City College of Technology**
August 2020 – Present
• Developed and taught courses on Introduction to Data Science, Machine Learning Fundamentals, Database Administration, Introduction to Computing, and Introduction to NoSQL
• Implemented career-connected learning projects using Python and AWS, enhancing student engagement and technical proficiency
• Advised students on real-world applications of data analysis and modern software engineering practices

**Senior Software Engineer – Global Healthcare Exchange**
June 2023 – June 2024
• Engineered and deployed interactive dashboards in Vue integrated with Django REST APIs, enhancing hospital administrators' and physicians' ability to make data-driven decisions on medical device usage and purchasing
• Delivered dashboards live at several large urban medical centers, improving operational efficiency
• Collaborated closely with designers and product managers to ensure intuitive, accessible interfaces

**Frontend Engineer – Calvin Klein**
June 2019 – January 2020
• Automated image asset creation pipelines using JavaScript and Adobe InDesign
• Collaborated with art directors to ensure consistent brand standards across digital properties and campaigns

**Frontend Engineer – Turbonomic**
July 2017 – June 2019
• Developed and maintained an AWS-based WordPress development workflow using SCSS and Git

**User Interface Engineer – Sentient Jet**
June 2015 – July 2017
• Designed and implemented data visualization dashboards using AngularJS, providing internal teams with analytics

**Freelance Web Developer and Designer – Self-Employed**
January 2014 – June 2015
• Built static websites and WordPress themes for entrepreneurs and artists, delivering clean, responsive designs and managing full deployment lifecycles