

Timmy Eng

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Employment

Lead ML / App Developer

Jan 2022 – Current

ML / App Developer

May 2021 – Dec 2021

Ai Media Group (Blackstone Portfolio)

New York, NY

- Lead full stack developer for company's new analytics platform
 - Created admin pages/features for setting up users, groups, and report configurations using **HTML**, **CSS**, and **JavaScript**.
 - Embed **Power BI** reports via API and created user auth service to render reports with row-level security for data access.
 - Designed Analytics database schema on **SQL Server**
- Create various **Azure**-hosted services using **test-driven development** and deployed with **Docker**:
 - Data transformation and business logic pipeline for network and web-tracking data to reduce database processing costs
 - Automated analytics reporting to reduce workload for senior management, sales, finance, and analytics departments
 - File processing and email service for DevOps department and external clients
 - Automated QA process to check for data discrepancies and alerts for relevant stakeholders
- Led initiative to standardize PII hashing to allow for matching customer data across different data sources for improved analytics
- Review/merge pull requests, track **AGILE** progress with **Jira**, and maintain **Confluence** documentation

Data Analyst

New York, NY

Ai Media Group (Blackstone Portfolio)

Feb 2020 – Apr 2021

- Lead full stack developer for internal Analytics department's data management web application built using **Django** and **MySQL**
- Lead Python developer for custom Sisense **Periscope** charts, dashboards, and KPI SQL alerts
- Applied predictive analytics to find lead attributions, customer segmentations, and next best actions in customer journeys to provide insight for improved digital marketing efforts
- Captured requirements and identified client-specific KPIs across different campaigns and media channels for different verticals

Data Analyst Intern

New York, NY

See Thru

Jun 2018 – Oct 2019

- Scraped, sanitized, validated, and imported customer/web metrics data into database for **ETL** process
- Analyzed important KPIs and created data visualizations for stakeholders and pitch decks

Research Assistant / Adjunct Lecturer

New York, NY

CUNY City College of New York

Nov 2015 – Jan 2019

- Invited Speaker to 2018 International ESA, ESC, and ESBC Joint Annual Meeting
- Databased, cleaned, and analyzed data for academic research of biodiversity of tropical beetles and plant host associations

Personal Projects

Slack Clone (Web Development)

Github.com/Source-Coders

- Collaborated with 3 other software engineers to recreate Slack to let users communicate across organization and channel levels with the look and feel of the original web app
- Co-managed project by leading SCRUM, identifying deliverables, delegating tasks, and reviewing/testing code
- Created **React** components and corresponding **Redux** states for chat, messages, sidebar, org, and channel; and **REST APIs** and **socket** event listeners for message, org, channel, and login services
- Assisted with **RxJS** integration to handle **async** events, database design, and **SQLAlchemy** ORM integration with **Flask** backend

NBA Regression Analysis (Analytics)

Github.com/timmy224/NBA_Analysis

- Examined relationship between calculated team efficiency ratings and win ratios using regression analysis. Models from past seasons were tested with 2019 season data to evaluate predictive power – 81% accuracy. Built by scraping web sources with **Selenium** and **BeautifulSoup**, manipulating and analyzing data with **Pandas**, **Numpy** and **Matplotlib**

Education

Bachelor of Science in Biology

New York, NY

CUNY City College of New York

2015