

Daniel Jalali

github.com/lin8x | linkedin.com/in/danieljalali

Education

FLORIDA INTERNATIONAL UNIVERSITY
Computer Science, BA

JUNE 2021 – AUGUST 2025
Miami, Florida

Skills

- Data Engineering:** Python (pandas, SQLAlchemy, MySQL Connector), relational databases, ETL pipelines, API integration (Patreon, Gumroad), data scraping (Selenium), JSON handling
- Data Science & Analytics:** Predictive modeling, data visualization, Power BI, pandas, historical currency conversions (forex-python)
- Software Development:** Python, Java, C#, Node.js, Visual Studio 2019/2022, Git, AWS, Flask
- Database Management:** MySQL, database design, query optimization, version control, error handling in SQL

Relevant Experience**HASH STUDIOS****Technical Co-Founder (Data Engineering Focus)**

JULY 2024 – PRESENT 2024
Fort Lauderdale, Florida

- Automated **data pipelines** to extract and process vendor sales data from Patreon, BOOTH.pm, and Gumroad **APIs** using **Python** and **Selenium** for supplemental data scraping.
- Developed a **custom Python library** for structured **logging**, debugging, and integration with SQL databases, optimizing workflow and error tracking.
- Designed a **relational database schema** and implemented robust ETL workflows for storing and querying complex datasets, improving data integrity and accessibility.
- Implemented **historical currency conversions** with forex-python to normalize financial data across regions, enabling accurate revenue analytics.
- Produced detailed analyses of product performance, sales trends, and customer behavior, driving strategic decision-making for marketing and product development.

FIU ROBOTICS AND DIGITAL FABRICATION LAB

AUGUST 2022 – SEPTEMBER 2024
Miami, Florida

Student Senior Robotic Lab Assistant

- Developed AR/VR applications to engage children and parents in interactive activities, encouraging physical movement and exploration.
- Conducted research on **VPS** in Lightship for accurate spatial localization and **ARDK** for immersive AR experiences including **object rendering**, event-driven spawning, and real-time progress tracking.
- Led the development of cross-platform interactive applications for **iOS** and **Android**, utilizing **Visual Studio**, **XCode**, and **Android SDK/NDK** to ensure seamless user interaction.

MIAMI-DADE COUNTY

MAY 2024 – MAY 2024
Miami, Florida

Data Science Intern

- Developed predictive models in **Python**, using **correlation matrix heatmaps** to identify key trends and inform data-driven policy recommendations.
- Created **Power BI dashboards** showcasing sentencing patterns, providing actionable insights for decision-makers.
- Managed version control and project workflows using **Azure DevOps** and **Git**, maintaining code quality and smooth collaboration.
- Delivered comprehensive presentations to senior leadership, including the CIO, demonstrating data insights and potential impact.

Relevant Projects**VENDOR DATA ANALYSIS SYSTEM**

SEPTEMBER 2024 – DECEMBER 2024

Developer

Python, Selenium, MySQL, API Integration, Custom Libraries

- Engineered a comprehensive **data pipeline** to collect, transform, and analyze vendor sales data from **Patreon** and **Gumroad APIs**, supplementing missing fields via **Selenium** for web scraping.
- Automated **currency normalization** and conversions using forex-python for multi-regional sales data.
- Designed and deployed a **relational database** in **MySQL**, managing sales, customer, and product datasets with optimized querying.
- Implemented data validation and error handling through a **custom Python library**, ensuring clean and reliable data processing.

AUTOMATIC PATREON INTEGRATION WEBSITE

JULY 2024 – AUGUST 2024

Developer

AWS, Node.js, MySQL, HTML, JavaScript, Git

- Built an AWS-hosted EC2 website integrating **Patreon API** with **OAuth 2.0** for user authentication and tier management.
- Designed **data pipelines** for syncing user data and subscription tiers, ensuring real-time updates between users and the backend.
- Enhanced backend efficiency by implementing **dynamic database queries** and asynchronous processing of user-submitted data.