

Mauricio Xavier

Systems Analyst - Advance Computer Engineering student

PROFILE

Computer Engineering student on the cusp of completing my degree, with significant progress (**89%**) towards achieving a **Systems Analyst degree**. Solid foundation in engineering principles gained through academic journey, developing problem-solving skills, and cultivating the ability to collaborate effectively in team environments. Enthusiastic about web development and eager to explore diverse areas within software engineering, ready to tackle new challenges and contribute to innovative solutions.

EXPERIENCE & PROJECTS

Thesis: Context Aware Data Quality Management

Facultad de Ingeniería (2024-Ongoing)

Working on a thesis project focused on developing a system for creating and managing a data quality model tailored to specific contexts. Key tasks include assisting in prioritizing data quality issues, selecting relevant dimensions, factors, and metrics, defining and applying methods to measure data quality, and storing results for data quality assessment tasks.

– Main Technologies: *Angular, Python, Django, PostgreSQL, Git*.

Analyst, UI/UX & Tester at Software Engineering Project

Facultad de Ingeniería (2020)

15-week software engineering project for a real client in the software industry. Worked in a 12-member team using Scrum methodology to develop and deliver a full-stack web application. The project involved creating a Minimum Viable Product (MVP) for a project management tool tailored to Scrum methodologies.

- **Analyst:** Worked closely with the Product Owner to survey and document system requirements, creating user stories for implementation by the development team.
- **UI/UX Designer:** Designed the whole web application, creating high-fidelity mockups validated by the Product Owner and provided to developers.
- **Tester:** Contributed to the testing team by designing and executing functional system tests based on acceptance criteria.

– Main Technologies: *React, Ruby on Rails, Django, PostgreSQL, Docker, Git*.

Java Developer at Programming Workshop

Facultad de Ingeniería (2019)

Developed an educational management system (desktop and web) using Java technologies, incorporating incremental development phases (analysis, design, implementation, and testing) within a client-server and layered architecture.

– Main Technologies: *Java, JavaScript, HTML, CSS, Git*.

Data Warehousing Project

Facultad de Ingeniería (2023)

Implemented and documented full ETL process to build a Data Warehouse and OLAP cubes for tourism data visualization and analysis in Uruguay.

– Main Technologies: *PostgreSQL, Pentaho Data Integration (Kettle), Visualizer, Power BI*.

Web Information Retrieval and Recommendations Project

Facultad de Ingeniería (2023)

Implemented content-based recommendation algorithm, emulating Spotify recommendation approach, using Python libraries and Jupyter Notebook to analyze and process datasets, connecting to the Spotify API to get user-specific information, focusing on personalized music recommendations based on user playlists.

– Main Technologies: *Python (Pandas, NumPy, Spotify)*.

EDUCATION

- **Computer Engineering** Facultad de Ingeniería. Udelar - Montevideo, Uruguay (2013)
- **English** Marlowe Institute. Rivera, Uruguay (2007-2012)
 - **Cambridge International Exam: B1 Preliminary** (2012)
- **Portuguese** Facultad de Ingeniería. Udelar - Montevideo, Uruguay (2013)



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SKILLS

- **Programming Languages** (Python, JavaScript, Java, C++)
- **Web Development** (JavaScript, HTML, Tailwind CSS, React, Node.js, Next.js, Django)
- **Databases** (SQL: PostgreSQL / NoSQL: MongoDB)
- **Version Control** (Git)
- **Data Management & Information Systems**
- **Algorithms and Data Structures**
- **Computer Networking**
- **Agile Methodologies** (Scrum)

LANGUAGES

- **Spanish** (Native)
- **English** (Intermediate)
- **Portuguese** (Intermediate)