JÚLIA BEGRMANN

Data Scientist & Musician

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EDUCATION

Eötvös Loránd University
PhD in Informatics

📅 Sep 2020 – Jun 2025   ⚲ Budapest

- Industrial data analytics
- Defining and refining production system models
- Machine learning

Budapest University of Technology
MSc in Mathematics

📅 Sep 2015 – Jun 2018   ⚲ Budapest

- Specialized on Analysis

Budapest University of Technology
BSc in Mathematics

📅 Sep 2015 – Jun 2018   ⚲ Budapest

EXPERIENCE

Research Analyst
Red Pulse

📅 February 2019 – Present   ⚲ Shanghai, CN

- Conduct quantitative/qualitative analysis on select market developments, company announcements, and industry trends.
- Provide live market updates by sourcing, aggregating and curating important developments in the Chinese Market.
- Build a high-quality network of experts by recruiting, training and managing analysts with diverse skill-sets.

Business Intelligence Analyst - Intern
Grupo Arcor

📅 Oct 2018 – Feb 2019   ⚲ Shanghai, CN

- Improved the decision-making efficiency of executives by creating an interactive dashboard to visualize sales data.
- Merged the firm's entire database dating back to 2016 by standardizing sales data provided by Chinese distributors.

Summer Analyst
Bank of America Merrill Lynch

📅 June 2018 – Aug 2018   ⚲ Miami, FL

- Provided re-balancing strategies, maximizing returns while cutting transaction costs by creating quantitative models.
- Achieved higher yields while lowering the risk and duration of our portfolios by optimizing the bond selection process.

TECHNICAL SKILLS

Java | C | Python | SQL | Solidity
JavaScript | HTML | CSS | Bootstrap
Flask | NumPy | Pandas | Scikit-learn
Tensorflow | Unix

PROJECTS

Genetic Algorithm for Code Golf Music

- Synthesizing Music Information Retrieval (MIR) and genetic algorithms to discover and improve short, music generating lines of C code.
- Implementing the model using a similar approach to the Ramanujan Machine.

HealthHub

- Designing and developing an electronic health records system focusing on aiding and assisting patients as well as providing a smoother data management experience for healthcare personnel (e.g. Physicians, Nurses, etc.).

Pitch Detection and Synthesis

- Developed an MIR algorithm to detect pitches in .mp3 files, reproduce them in MIDI, and synthesize them using custom wave formats.
- Used real-time signal processing to visualize the outputs generated by the algorithm.

Booking Website

- Designed and developed a flight booking website from scratch, providing multiple services to both end-consumers and airlines.
- Implemented the website using Python, Flask, SQL, JS and HTML/Bootstrap/CSS.

Automated Performance Reporting System

- Solely developed a program to automatically generate quarterly performance reports for Arch Global Advisors, scraping the web to get historical stock price data, dividend data, and earnings release dates.
- Ultimately cut the firm's reporting process from days to minutes.

SOFT SKILLS

- Natural networker, who, having lived in several countries, quickly adapts to social environments with people from all over the world.
- Hosted Chinese Language Competition at NYU, acting as an MC for an audience of more than 100 attendees.
- Acted as a Community Manager for Red Pulse, successfully leading a group of over 150 writers.

Software Engineer - Intern
Arch Global Advisors

📅 Sept 2017 – May 2018   📍 New York, NY

- Cut report creation time from days to minutes by engineering a proprietary reporting software to automate the entire process.
- Maintained and updated the software to keep up with changing demands and API updates

LANGUAGES

English   ●●●●●
Spanish   ●●●●●
Mandarin   ●●●○○