

# JÚLIA BEGRMANN

## Data Scientist & Musician

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📍 Budapest, Hungary

in linkedin.com/in/juliabrgmn/

📄 github.com/juliabergmann

## 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

Data Analyst & Scientist

EPIC InnoLabs

📅 Sep 2018 – Present

📍 Budapest

- blah
- blah
- blah

Researcher

SZTAKI

📅 Oct 2017 – Present

📍 Budapest

- blah
- blah

Trainee

Nokia

📅 Sep 2016 – Jan 2017

📍 Budapest

- blah

## LANGUAGES

English

French

Spanish



## TECHNICAL SKILLS

Python

SQL

Plotly

Dash

NumPy

Pandas

Scikit-learn

Tensorflow

Pycaret

R

Shiny

Plant Simulation

Xpress

LaTeX

## 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.