

# Alex Panchot | Resume

St. Louis, MO

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## About Me

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I am passionate about science and technology, with strong technical skills for successfully completing team projects. My work ethic is goal and detail oriented with a strong analytical mindset. My aspirations are to utilize my various skills, including experience with international ways of thinking, to grow professionally and advance the company's business objectives.

Available in St. Louis or remotely, and open to relocating.

## Previous Employment

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- **St. Louis Public Schools, Full-time** **St. Louis, MO**  
*IT Intern* *Summer 2015*  
Internship with the IT department. I serviced the software of numerous educational tablets as well as visiting several schools to service the hardware of their computer labs.
- **St. Louis Public Library & Richmond Heights Public Library** **St. Louis, MO**  
*Volunteer Library Assistant* *2013 - 2016*

## Education

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### Academic Qualifications

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- **NOVA University Lisbon** **Lisbon, Portugal**  
*MS. Data Science, Finishing May 2021* *2019-2021*  
An international program focusing on full-stack data science, from the methods in which data is ingested into databases and stored for later analysis, to the various algorithms, statistical tests, and deep learning techniques that can be used to produce results from the data. In addition, various soft skills were developed, such as identifying and deploying the most effective and impactful processes for presenting data in a dashboard, either with Plotly Dash or Microsoft Power BI.
- **Leipzig University** **Leipzig, Germany**  
*BS. Physics, GPA: 3.6* *2016-2019*  
An international physics bachelors degree completed in three years.
- **International Baccalaureate** **St. Louis, MO**  
*IB Diploma, Final Grade: 34, IB Grading Scale* *2014-2016*  
A two year advanced study diploma program. The program consisted of advanced level courses in the sciences and humanities as well as additional extracurricular projects, such as volunteering.
- **Metro Academic and Classical High School** **St. Louis, MO**  
*High School, Final GPA: 4.0 - Valedictorian* *2013-2016*

## Notable Projects

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- **Master's Thesis:** *Simulating Traffic Patterns as a Result of Closing a Specific Road*  
I worked on an agent based simulation that focused on car traffic patterns through the streets of Lisbon, Portugal. One of the main goals was to also create and define a generic and reproducible method for replicating the simulation for any location in the world with very little additional work.
- **Project Collection:** <https://github.com/apanchot/Projects>  
A Github collection of various projects (including some Kaggle datasets) that I have / am working on. Each project includes a brief presentation to describe the problem, the solutions, and what was learned.

## Technical and Personal skills

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- **Languages:** English (native), German (B1 CEFR), Spanish (A2 CEFR), Portuguese (A1 CEFR)
- **Programming Languages:**
  - High Proficiency: Julia, Python,  $\LaTeX$ , SQL, Bash
  - Familiarity: C/C++, R, Scala
- **Software Skills:** Origin/SciDAVis, MS Office, Microsoft Power BI, Jupyter Notebook, Git / GitHub
- **Technical Skills:**
  - Experience with multiple types of **databases** such as: MongoDB, MySQL, Neo4j
  - Experience with **big data software** such as: Apache Hadoop, Spark, MapReduce, and Hive
  - Experience with **statistical packages** in Julia, Python (Numpy, Scipy, scikit-learn), and R
  - Experience with **predictive analysis, natural language processing, image processing, and time-series forecasting**
  - Experience with large **retail, insurance, and geographical, and financial** data sets
  - Experience with numerous **data science** packages in Julia (DataFrames) and Python (Pandas)
  - Experience with **deep learning** packages in Julia (Flux) and Python (Keras, Tensorflow, PyTorch)
  - Experience with working with **remote clusters** and multiple cpu-node systems over bash / SSH
  - Experience with cloud based software such as **Databricks**
  - Experience with building **dashboards** for data consumption and data visualization
  - Ability to easily learn new software packages and/or new programming languages
- **General Business Skills:** Project planning and execution, team collaboration, and maintaining a results oriented mindset
- **Other:** Strong communication, writing, and presentation skills
- **References:** Available upon request

## Interests

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- My other interests include photography and spending time outside, exploring both urban sites as well as natural ones. Outside I enjoy taking my dogs for hikes and cycling through Forest Park, while inside I enjoy solving puzzles and playing chess.