

Ulises Rönnau, Data Science Student

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LINKS

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PROFILE

Data Science undergraduate at UNC Chapel Hill (GPA: 3.9) focused on machine learning and applied AI. **Background includes industry, research, and startup work**, with a strong interest in deploying models beyond purely academic settings. **Fluent in three languages** with an **international background spanning four continents**.

EMPLOYMENT

June - July 2025

Machine Learning Engineer — Splight

San Francisco, USA

- Built and deployed machine learning models to **forecast electrical grid transmission line capacity** up to **10 days ahead**, achieving **91%** accuracy across customer deployments.
- **Improved legacy forecasting pipelines** by identifying nonlinear behavior and seasonal bursts in time-series data, leading to a **model transition to LightGBM and XGBoost**.
- **Designed and deployed production workflows** using AWS Lambda, SageMaker APIs, and S3 to support real-time customer dashboards.
- Collaborated with engineering and product teams to translate model outputs into operational decision-making tools used by **all Splight customers**.

Jan 2025- Dec 2025

Data Scientist — Heally

Chapel Hill, USA

- Developed machine learning systems for a neuroscience-driven **AI startup focused on student mental health and burnout prevention**.
- Contributed to the HEALLY MIND model, an early-warning system for stress and burnout using behavioral, facial, and voice-based signals.
- Built backend services using Python (FastAPI) and Node.js to support model inference and data pipelines.
- Worked with PyTorch and Affectiva to **analyze emotional patterns from multimodal inputs**.

Aug 2024 - Dec 2024

Genetics Lab Technician and DNA Analyst — UNC Chapel Hill

Chapel Hill, USA

- Conducted **research on DNA chromosome breakage and repair in yeast** using phenol-chloroform miniprep, yeast transformation, PCR amplification, and gel electrophoresis across **500+ samples**.
- Performed quantitative DNA analysis to evaluate chromatin behavior following induced breakage events.
- **Assisted in developing 3D nucleus models** using C, C++, and Python to simulate chromosomal structure, reducing experimental pre-lab time.

Feb 2024 - Present

Mathematics and Language Tutor — CollegeBoard | VarsityTutors

Remote

- **Selected by CollegeBoard to tutor and beta test** the redesigned **digital SAT (dSAT)** mathematics section; provide one-on-one instruction in mathematics, German, and Spanish

August 2025 - Present

Resident Advisor — UNC Chapel Hill

Chapel Hill, USA

- **Serve as the primary point of contact for residents** regarding housing, academic, and wellness concerns.
 - **Build consistent relationships with 40+ residents** and **organize bi-monthly community events**.
 - Conduct nightly safety rounds and respond to on-call emergencies with clear documentation and follow-up.
 - Mediate roommate conflicts and connect residents with appropriate campus resources.
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EDUCATION

Aug 2024 - May 2027	Bachelor of Data Science — UNC Chapel Hill Concentration in Artificial Intelligence • Minor in Economics , GPA: 3.9/4.0	Chapel Hill, USA
Aug 2022 - Jun 2024	IB Diploma — Myers Park High School CGPA: 37/45 marks	Charlotte, USA

RELEVANT COURSEWORK

Data Science & Machine Learning

Machine Learning • Optimization for Machine Learning • Data Ethics • Econometrics

Mathematics & Statistics

Linear Algebra • Multivariable Calculus • Probability for Data Science • Discrete Math

Computer Science

Data Structures • Design Patterns

TECHNICAL SKILLS

Programming Languages

Python, Java, C, C++, SQL, R, JavaScript

Machine Learning & Data Science

LightGBM, XGBoost, PyTorch, TensorFlow, scikit-learn,
Pandas, NumPy, Matplotlib

Cloud & Deployment:

AWS (Lambda, SageMaker, S3), Docker, Docker Images,
PythonAnywhere, Streamlit

Web & Backend Development

FastAPI, Flask, Node.js, HTML, CSS

Data & Productivity Tools

Jupyter Notebooks, Google Colab, Git, GitHub, Jira,
Confluence

LANGUAGES

English	Native speaker	French	Very good command
German	Native speaker	Japanese	B2
Spanish	Native speaker		