CIAN HAMILTON

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PROFESSIONAL SUMMARY

First employee and research analyst at fast-scaling startup with a Master's in Theoretical Physics and 3 years of experience translating complex technical data into strategic business insights. Expertise in conducting large-scale literature reviews, patent analysis, and developing AI-powered research tools. Proven track record of driving strategic decisions through data synthesis in fast-scaling startup environments, with experience serving both technical and business stakeholders.

TECHNICAL SKILLS

Data Science: Data analysis, data visualization, statistical modeling, time series analysis

Mathematics: Linear algebra, stochastic calculus, optimization, differential equations

Programming: Python (NumPy, Pandas, Pytorch, MatPlotLib), Excel (VLookUps, Macros, Pivot Tables), Linux terminal, SQL

PROFESSIONAL EXPERIENCE

08/2022 current — **Research Analyst** — **Project Eaden**
- Contributed to multiple areas of the business over the last 3 years as the company's first employee, scaling from 1 to over 30 team members.
  - **Research:** Led literature review of 400+ scientific papers, identifying critical research that resulted in the change of our main ingredient, which almost doubled our consumer acceptance scores.
  - **Generalist:** Helped establish company culture and operational systems during rapid team growth. Served as cross-functional bridge between technical, business, and strategic initiatives.
  - **Intellectual Property:** Patent Strategy: Led strategy for 2 patents from engineer interviews through filing, including custom Python/LLM tools for novelty searches and Freedom to Operate analysis. Conducted competitor patent invalidation research, boosting investor confidence for next funding round.

11/2020 07/2022 — **IT Support Technician** — **Free University Berlin**
- Solved the IT problems of university staff and students for their Linux and Windows computers.

09/2017 06/2019 — **Teaching Assistant** — **University of Groningen**
- Tutored students in tutorials and labs, as well as mentoring students. I received the most recommendations of any other tutorial assistant in the department that semester.

EDUCATION

2019 2022 — **Research Master's in Theoretical Physics** — **Free University Berlin**
- Year-long masters thesis in the field of classical and quantum chaos at the Max Plank Society
- Completed advanced coursework in Deep Learning and Machine Learning

2016 2019 — **Bachelor's of Science in Theoretical Physics** — **University of Groningen**
- Thesis on Non-Relativistic Supersymmetry
- Emphasis on quantitative analysis and problem-solving

PROFESSIONAL DEVELOPMENT

12/2024 — **Built Automated Stock Analysis Platform: cianhamilton.com**
- Developed python-based system automatically analyzing daily S&P 500 stock movements, statistical indicators, and news, to explain significant price movements. Another webpage summarises SEC filings as they are published.

2024 — **Coursera**
- Completed intensive 106-hour Advanced Excel Specialization, mastering financial modeling, VBA programming, automated reporting systems, and advanced analytics functions.

2025 — **Self-study with Textbooks (studied cover to cover)**
- Modern Principles of Economics, by T. Cowen and A. Tabarrok.
- Mathematical Statistics with Applications, by D. Wackerly
- Storytelling with Data: A Data Visualization Guide for Business Professionals, by C.N. Knaflic
- Learning SQL by A. Beaulieu
- Forecasting: Principles and Practice by R. J. Hyndman

ADDITIONAL ACHIEVEMENTS AND INTERESTS

03/2022 — **Scientific paper** — **Link to paper**
- Main author of an academic article in the field of quantum chaos. I presented this work at the scientific conference SAMOP21.

07/2022 08/2023 — **Volunteer Research Analyst Work for a Non-Profit** — **SWP**
- Assisted economic modeling (collating relevant academic papers, summarizing, and analyzing data).
- Ran project on building a framework to help prioritize cost-effective interventions.