KAI HUESKE-VAN CEYLON
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EDUCATION

University of Colorado at Boulder **May 2022**
Bachelor of Science in Computer Science, with a focus in Artificial Intelligence and Machine Learning
Member of the Engineering Honors Program
3.82 GPA

- ***Relevant Projects:***
  - ***NLP COPA task*** **-** a team ML project in natural language processing. We used PyTorch to fine-tune pretrained embedding models (RoBERTa and DeBERTa) to perform the SuperGLUE COPA (choice of plausible alternatives) task.
  - ***TutorTaker*** **-** a team software development project in which we built a web application to connect students with prospective tutors. I worked on the backend, building the database and web server using NodeJS and PostgreSQL.
- ***Relevant Courses:***
  - Completed Natural Language Processing, Advanced Data Science, Machine Learning, Algorithms, Principles of Programming Languages, Entrepreneurial Projects in CS, Data Structures, Operating Systems, and Introduction to AI
  - Currently taking Object-oriented Analysis and Design, and Cybersecurity for a Converged World

PROFESSIONAL EXPERIENCE

CATFund, Boulder, CO May 2021 - Present
Algorithm Developer

- Built financial trading algorithms using ML and data science techniques in a largely self-directed work environment
- Led exploration to add diverse new revenue streams to company

Financial Risk Assessment, Boulder, CO October 2021 - Present
Data Scientist

- Conducted research on stock volatility in cooperation with Dr. David Ikenberry and the Leeds School of Business
- Collected and processed financial data using SQL, Numpy, Pandas, and Matplotlib
- Analyzed data using hidden Markov models and unsupervised learning
- Worked with non-technical project members to translate project goals into code, and communicated findings using data visualization

CU Research Computing, Boulder, CO October 2018 - October 2019
Online Learning Project Assistant

- Fulfilled dynamic roles providing technical support for RMACC Summit supercomputer, as well as assisting with launch of online high-performance computing course

SKILLS

- Experienced with ML theory/architectures like RNNs, transformers, and pretrained models, as well as practical frameworks like PyTorch, Scikit-learn, and the Transformers library
- Proficient in C/C++, Python, Java, Scala, HTML/CSS, NodeJS, ReactJS, PostgreSQL
- Experienced with data processing in Numpy, Pandas, OpenCV, and Scipy Python libraries
- Familiar with Agile & Waterfall workflows, full stack development, and team software development

HONORS AND AWARDS

- Black belt & experience as assistant instructor in Taekwondo 2009 - Present
- Self-funding 90% of college expenses, including tuition and living expenses 2018 - Present

PERSONAL ACHIEVEMENTS

- Summer abroad in Brussels, studying EU Policy July-August 2021
- CU Sewall Esteemed Scholars Award 2018 - Present
- Mortenson Center for Global Engineering scholarship 2020 - Present
- CU College of Engineering Loach scholarship 2020 - Present