Daniel Chechelnitsky

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EDUCATION

University of Michigan - Ann Arbor　　　　　　　　　　　　　　　　　　Ann Arbor, MI
Master of Science in Computer Science　　　　　　　　　　　　　　　*Aug. 2022 – Apr. 2024*

Macalester College　　　　　　　　　　　　　　　　　　　　　　　Saint Paul, MN
Bachelor of Arts in Computer Science and Linguistics　　　　　　　　　*Aug. 2018 – May 2022*

EXPERIENCE

Computational HCI Lab Research Assistant　　　　　　　　　　　　May 2023 – Present
University of Michigan - Ann Arbor　　　　　　　　　　　　　　　　　*Ann Arbor, MI*
- Wrote and debugged Python code for large scale multi-thread webscrape of YouTube for an algorithmic audit, one of the first to also include YouTube Shorts
- Built labeling website in Elixir incorporating a SQL database
- Compiled and tested list of similar relevant applications for algorithmic audits

SULI Data Science Intern　　　　　　　　　　　　　　　　　　Jun. 2022 – Aug. 2022
Argonne National Laboratory　　　　　　　　　　　　　　　　　　　*Lemont, IL*
- Replicated AUC results from MOLI and Velodrome model papers
- Optimized hyperparameter training of MOLI using Ray tune
- Presented findings at SULI Summer Research Showcase

MSCS Department Research Assistant　　　　　　　　　　　　Aug. 2021 – Apr. 2022
Macalester College　　　　　　　　　　　　　　　　　　　　　　*Saint Paul, MN*
- Built a Google Maps Extension using Apple Watch Heart Rate Data to help reduce Driving Anxiety
- Wrote an 40-page honor thesis, gave multiple presentations on-campus, successfully defended thesis, and published in Macalester Digital Commons

DSI Summer Lab Researcher　　　　　　　　　　　　　　　　Jun. 2021 – Aug. 2021
The University of Chicago - Data Science Institute　　　　　　　　　　　*Chicago, IL*
- Built an accessible mobile app using Flutter framework that uses deep learning models trained on Kaggle datasets to predict prostate cancer, skin cancer, and heart failure risk
- Demo-ed app and presented poster at DSI Summer Lab and Macalester College 2021 Summer Research Showcases

Software Development Intern　　　　　　　　　　　　　　　　Nov. 2020 – Apr. 2021
GogyUp　　　　　　　　　　　　　　　　　　　　　　　　　　*Minneapolis, MN*
- Designed, programmed and integrated 2 different NLP frameworks successfully into a Smart Dictionary App from spaCy Python library
- Compared 2 other implementations of text processing APIs in Python
- Presented 12 weekly Google Analytics website traffic reports at company meetings

TEACHING EXPERIENCE

Graduate Student Instructor　　　　　　　　　　　　　　　　Aug. 2022 – Present
University of Michigan - Ann Arbor　　　　　　　　　　　　　　　　　*Ann Arbor, MI*
- Lead two lab sections weekly for EECS 281: Data Structures and Algorithms & EECS 403: Graduate Foundations of Data Structures and Algorithms
- Hold office hours, organize review sessions, and facilitate Piazza forums
- Grade assignments and exams

MSCS Department Preceptor　　　　　　　　　　　　　　　　Jan. 2020 – May 2022
Macalester College　　　　　　　　　　　　　　　　　　　　　　*Saint Paul, MN*
- Held office hours, graded assignments, and assisted in course planning across 5 semesters for Data Structures, Core Concepts in CS, Theory of Computation, Computer Systems, and Computational Linear Algebra

TECHNICAL SKILLS

Languages: Java, Python, C++, C, SQL (SQLite/MySQL), Dart, Elixir, Swift, JavaScript, R, HTML
Other Tools: Google Cloud, PyTorch, Keras