

# Dan Chechelnitsky

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## EDUCATION

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### University of Michigan - Ann Arbor

*Master of Science in Computer Science and Engineering*

Ann Arbor, MI

Aug. 2022 – Apr. 2024

### Macalester College

*Bachelor of Arts in Linguistics*

Saint Paul, MN

Aug. 2018 – May 2022

## EXPERIENCE

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### Artificial Intelligence Research Assistant

*University of Michigan - Ann Arbor*

May 2023 – Jun. 2024

*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
- Constructed back-end of labeling website in Elixir incorporating a SQL database
- Compiled and tested list of similar relevant applications for algorithmic audits

### Software Development Intern

*Argonne National Laboratory*

Jun. 2022 – Aug. 2022

*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

*Macalester College*

Aug. 2021 – Apr. 2022

*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

*The University of Chicago - Data Science Institute*

Jun. 2021 – Aug. 2021

*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

*GogyUp*

Nov. 2020 – Apr. 2021

*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

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### Graduate Student Instructor

*University of Michigan - Ann Arbor*

Aug. 2022 – May 2024

*Ann Arbor, MI*

- Led two lab sections weekly for EECS 281: Data Structures and Algorithms & EECS 403: Graduate Foundations of Data Structures and Algorithms
- Held office hours, organized review sessions, and facilitated Piazza forums
- Graded assignments and exams

### Instructional Aide

*Macalester College*

Jan. 2020 – May 2022

*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

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**Languages:** Java, Python, C++, C, SQL (SQLite/MySQL), Dart, Elixir, Swift, JavaScript, R, HTML

**Other Tools:** Google Cloud, PyTorch, Keras