

Martin Michalski

Hoffman Estates, IL, 60010 | martinm6@illinois.edu | github.com/martmichals

Education

University of Illinois at Urbana-Champaign
Bachelor of Science in Computer Engineering

May 2023
GPA: 3.91/4.00

Experience

Research Assistant, University of Illinois at Urbana-Champaign
Professor Jiawei Han

December 2021 – Present

- Leading research efforts in the development of a new taxonomy-completion model
- Assisted in development of a few-shot natural language understanding model, modifying two pre-trained language models, CTRL and CoCoLM
- Assisting in the development and evaluation of a new topic-modelling method
- Performed exploratory analysis on the strengths and weaknesses of pre-trained language models (BERT & GPT-2) in the context of the taxonomy-completion problem

Research Assistant, University of Illinois at Urbana-Champaign
Professor Roxana Girju

September 2021 – January 2022

- Performed in-depth exploratory analyses of a corpus containing narrative accounts of hypothetical patient-doctor interactions, exploring empathy in a clinical setting
- Wrote a module for common pre-processing and visualization steps in analyses
- Used common topic modelling, dependency parsing, and part-of-speech tagging methods to extract insight from the corpus

Data Science Intern, Motorola Solutions
Online

May 2021 - August 2021

- Built proof-of-concept solutions for anomaly detection in 911 call center network traffic, with the goal of detecting hackers
- Made use of various unsupervised forecasting and clustering models

Software Engineer Intern, Motorola Solutions
Online

June 2020 - December 2020

Private Tutor, Varsity Tutors
Online

October 2019 - February 2020

HIP Program Mentee, Northrop Grumman
Rolling Meadows, IL

September 2017 - June 2019

Skills & Achievements

Programming Languages: Python, C, JavaScript, C++, Dart, Java, Mathematica

Achievements: 3rd place in design competition for ECE 391 (Computer Systems), National Merit Scholar

Foreign Language: Polish