Martin Michalski

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Education

University of Illinois at Urbana-Champaign   May 2023
Bachelor of Science in Computer Engineering   GPA: 3.92/4.00

Experience

NLP Research Assistant, Beckman Institute at Illinois   September 2021 - Present
Online

- Applied LDA and ccLDA topic modelling to a corpus of patient-doctor interactions, looking for topics aligned with words common in empathetic expressions
- Wrote a local library to streamline preprocessing and visualization for all topic models
- Currently working on methods for empathy recognition and emotion-sense linking

Data Science Intern, Motorola Solutions   May 2021 - August 2021
Online

- Built proof-of-concept solutions for anomaly detection in 911 call center network traffic, with the goal of detecting hackers
- Implemented an internal library for the visualization of network traffic, easing interpretation of multi-million row datasets
- Made use of various unsupervised forecasting and clustering models

Software Engineer Intern, Motorola Solutions   June 2020 - December 2020
Online

- Implemented new features for an internal schedule generation tool, allowing administrators to manage user accounts, and giving users more control over the schedule generation process
- Designed and implemented a behavioral test suite for the tool using Selenium and Behave

Private Tutor, Varsity Tutors   October 2019 - February 2020
Online
HIP Program Mentee, Northrop Grumman   September 2017 - June 2019
Rolling Meadows, IL

- Built and tested an RC aircraft that sent flight telemetry to a ground station which displayed mock flight gauges, updated in sync with the aircraft

Skills & Achievements

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

Frameworks: Pandas, NLTK, Datatable, Plotly, Sklearn, Tensorflow, Selenium, Sphinx, among others

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

Foreign Language: Polish