

Richard M. Mikel

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EDUCATION

The University of Chicago, Chicago, IL

M.S., Masters Program in Computer Science, Specialization in Data Analytics

- Cumulative GPA: 3.70/4.0

University of Wisconsin-Madison, Madison, WI

B.S., Chemical Engineering, May 2016

- Certificates in Physics, Biology in Engineering
- Cumulative GPA: 3.59/4.0

TECHNICAL SKILLS

Programming Languages: Python, C, C++, Golang, Scala, MySQL

PROJECTS

Reinforcement Learning Research Project MPC5 53112, Chicago, IL

Student, Fall 2018

- Independently conducted research into reinforcement learning
- Built and trained agents implementing REINFORCE, DQN and Double DQN

Machine Learning Model Implementations MPC5 53111, Chicago, IL

Student, Spring 2018

- Constructed several models including decision trees, logistic regression, and neural networks
- Tested their performance on different datasets

Web Server MPC5 54001, Chicago, IL

Student, Winter 2018

- Created an HTTP server in Python that could support both GET and HEAD requests
- Asynchronously handled requests and properly formatted messages according to RFC 2616

Relational Database MPC5 53001, Chicago, IL

Student, Fall 2017

- Practiced database design by building a relational database using MySQL
- Built a webpage using PHP and HTML to communicate with and perform queries on the database

Pflegler Lab, Madison, WI

Student Researcher, January 2015 - May 2016

- Produced and isolated strain via plasmid transformation and culturing on antibiotic plates
- Measured the growth rates of cyanobacteria strains in wastewater media

EXPERIENCE

Quiddity Solutions, Chicago, IL

Intern, June - August 2018

- Used Apache cTAKES to perform named entity recognition of medical terms in journal articles
- Built a pipeline in Python for relation extraction using sentences containing known relation tuples

Split Rock Genomics, Raleigh, NC

Molecular Scientist, May - September 2017

- Performed data entry of commercial and research samples into the LIMS system
- Processed new blood samples that arrived into the lab by conversion to plasma and storage

McMahon Lab, Madison, WI

Student Researcher, June - August 2015

- Assisted in experimental setup of cyanobacteria bioreactors and data collection