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KATHERYN HRABIK

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SKILLS

Languages: [Proficient]: Java, Python, HTML, CSS, SQL. [Familiar]: C, JavaScript, Scala, Lisp, R.

Tools: Git, Eclipse, IntelliJ, JUnit, NLTK, Pandas, Keras, Tensorflow, Weka, SpSS, RStudio, CoreNLP, Jupyter Notebook, NumPy, Scikit-Learn, JAXB, Django, Unix Shell, Amazon Web Services.

Concepts: [Object Oriented Software Development]: Design patterns, MVC architecture, UML, Unit Testing. [Deep Learning]: Backpropagation, Convolutional Neural Networks, Recurrent Neural Networks, Regularization, Time Series Forecasting. [Data Science & Machine Learning]: Data Analytics, Predictive Modeling, Data Mining, Linear Regression, Feature Engineering. [Other]: Distributed Systems, Blockchain, Relational Database Design and Management.

EDUCATION

- **DePaul University**: Chicago, IL (Cumulative GPA: 3.66)   June 2016 – March 2019
  Master of Science in Computer Science, Concentration in Artificial Intelligence
  Relevant Coursework: Applied Algorithms and Structures, Distributed Systems, Neural Networks and Deep Learning, Programming Machine Learning Applications, Database Technologies, Object Oriented Software Development, Data Science, Data Structures, Discrete Structures, artificial Intelligence
- **Kent State University:** Kent, OH   August 2008 – May 2012
  Bachelor of Arts in Psychology, with research in Experimental Psychology (Human Cognition)

RESEARCH

- **Affective Computing, DePaul University**   April 2018 – Present
  Working with Dr. Clark Elliott on the implementation of an *emotionally intelligent* computing system, focusing on automatic manifestation of emotions from categorized inputs. This research expands upon the original Affective Reasoning Agent hypothesized by Dr. Elliott, and explores parsing and categorization methods for incoming user input as well as the creation of an *affective* mapping system.
- **Forced Fabrication & False memory, Kent State University**   January 2012 – August 2012
- **Adult Psychopathology, Kent State University**   August 2010 – December 2010

RELEVANT PROFESSIONAL EXPERIENCE

- **Business Systems Analyst, Destination Cleveland**   February 2017 – October 2017
  Maintained system protocols by writing and updating procedures for the organization's infrastructure, including financial and CRM systems. Developed and maintained a positive relationship with software vendors. Oversaw project progress by tracking activity, resolving issues, and publishing progress reports.
- **Business Systems Analyst, Cardinal Health** *(contract)*   November 2016 – February 2017
  Worked on a multi-disciplinary team of analysts, developers, and project managers within an Agile framework. Prepared technical reports by collecting, analyzing, and summarizing project needs as described by business stakeholders. Defined official project requirements by identifying project milestones, deadlines, and complications. Worked closely with stakeholders to communicate goals and gather project feedback.
- **Software Test Analyst, Amtrust Financial** *(contract)*   February 2016 – October 2016
  formulated strategies for testing through analysis of software requirements within an Agile Development Environment. Developed & maintained manual & automated test plans and detailed test cases. Identified, reported on and tracked errors in functionality and usability. Published software test reports to appropriate parties. Served as key stakeholder on projects assigned.

AFFILIATIONS AND MEMBERSHIPS

- Cleveland Artificial Intelligence Group, HerCDM, DePaul Computer Science Society, Kent State University Psychology Club