

# Jingwei Li

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## EDUCATION

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- University of Illinois at Urbana-Champaign**, Illinois, IL Aug 2019  
Master of Computer Science in Data Science, GPA: 3.9/4.0
- University of Toronto**, Toronto, ON Aug 2018  
Bachelor of Science (Computer Science and Actuarial Science), GPA: 4.0/4.0. Actuaries Exam FM, P passed.

## WORK EXPERIENCE

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- Data Engineer Intern, Alibaba Cloud**, Hangzhou, China May 2019 – Aug 2019
- Build data ETL pipeline for intelligent parking management system via Graph Convolutional Network.
  - Develop a real-time analytical toolset for device error prediction with stream data of various physical models from IoT service, using big data computing and warehousing service on Alibaba Cloud Platform.
- Software Developer, Solar Panda**, Toronto, ON Mar 2019 – Apr 2019
- Deployed updates and maintained financial payment server using Java, Spring Boot and MySQL.
  - Queried, transformed, analyzed real-time data with noise in MySQL.
  - Configured Docker VM to generate Asterisk service with Git and linux command.
- Jr. Software Developer, Ministry of Education**, North York, ON May 2018 – Dec 2018
- CRUDed data information from SQL databases. Implemented application screening functions in Spring framework and optimized OSAP administrator service using Java, JavaScript, XML and Jython.
  - Deployed scheduled builds using SVN, Hudson, WinSCP and Jira tickets in Agile work environment.
- Jr. Data Analyst, IESO**, Oakville, ON May 2017 – Aug 2017
- Performed data ETL and analyzed data from multiple sources and types in Hyperion, Tableau, and VBA.
  - Conducted anomaly detection in electricity supply data and root cause analysis based on logs and market research; presented weekly across teams.

## PROJECTS

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- Deep Network for NBA 2019 MVP Prediction** Apr 2019 – May 2019
- Collected data from NBA stats web using self-designed python crawler script.
  - Predicted NBA 2019 MVP accurately by developing a CNN model with dropout and regularization.
- Hadoop Platform and Application Framework**, UCSD, San Diego, CA Nov 2018 – Feb 2019
- Wrangled and processed big data with Hadoop streaming commands on Cloudera platform.
  - Analyzed quantitatively ABC TV Shows dataset by join using MapReduce framework in Python.
  - Generated TV channel viewers value with data curation, cleaning, collection and ETL in PySpark console.
- Grammatical Error Correction**, UIUC, Champaign, IL Sep 2018 – Dec 2018
- Developed word tokenizer and implemented convolutional seq2seq model using transfer in PyTorch.
  - Constructed an enhanced interactive model with RESTful API and Web GUI on Azure.
- Economic Indicators Prediction**, University of Toronto, Toronto, ON Nov 2017 – May 2018
- Optimized regression models via reparameterization to predict social-economic proxy data.
  - Mined dataset by attempting various supervised, unsupervised and clustering models.
- Social Analytics with Big Data**, MIT, Cambridge, MA July 2016 – Oct 2016
- Visualized the population density distribution and route frequency geographically.
  - Predicted location of individuals using previous location points within specific time intervals.

## SKILLS

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- **Big Data:** PySpark, Scala, MySQL, Tableau, PyTorch, sklearn, TensorFlow
- **Programming:** Java, Python, R, JavaScript, HTML&CSS, MatLab, SAS (Advanced Certificate)
- **Frameworks:** BootStrap, AngularJS, NodeJS, ReactJS, Express, Spring, MyBatis, MongoDB