JOSEPH JUHN

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EDUCATION

- **University of Illinois Urbana Champaign** — Urbana Champaign, Illinois
  Master of Computer Science in Data Science; GPA 3.66 — *Jan. 2018 - Present*

- **University of British Columbia** — Vancouver, BC
  Bachelor of Science in Cell Biology and Genetics; GPA 3.4 — *Sept. 2004 - May. 2008*

COURSEWORKS

- Advanced Bayesian Modelling
- Data Visualization
- Database Systems
- Methods of Applied Statistics
- Text Retrieval and Search Engines
- Udacity Nanodegree on Self driving cars
- Cloud Computing Application
- Pattern Discovery and Cluster Analysis

EXPERIENCE

- University of British Columbia - Centre for Applied Neurogenetics — Vancouver, BC
  Application Developer — *Sept. 2016 - Dec. 2017*
  - Data Warehousing and Visualization: Oversaw the design, development and maintenance of Disease/Phenotype Ontology database in Neo4j and web application to manage laboratory information in Python and Flask.
  - Machine Learning: Discovered and recalibrated legacy DNA sequencing data into usable format using various machine learning techniques.

- BC Cancer Agency — Vancouver, BC
  Computational Biologist: Data Engineer — *Sept. 2014 - Sept. 2016*
  - Data Warehousing and Visualization: Developed a web application for visualizing current workflow to manage data pipelines which lead to increase in pipeline developer productivity.
  - Data Collection: Designed internal survey and tools for effective communication and increased efficiency in collecting medical data.

- ZE Powergroup — Richmond, BC
  Application Developer — *Jan. 2012 - Aug. 2014*
  - Tool development: Developed backend tools in Java for data scraping, cleansing and parsing
  - Database management: Setup, schema design and management of Oracle and MSSQL

PROJECTS

- Housing price analysis: Prediction of housing prices using multiple linear regression in R.
- Canadian Charity finder: Find the appropriate Canadian charity website using web scraping and TF-IDF on Amazon EC2.
- Wine Tastes Good: Recommendation Engine for good wines using collaborative filtering.

SKILLS

- **Machine Learning**: Classification, Regression, Feature engineering, Data cleansing, Visualization
- **Statistics**: Regression, Confidence Interval, Bayesian and Monte Carlo methods
- **Programming and Databases**: Python, R, Java, C++, Linux, Git, Linux, Oracle, MSSQL
- **Visualization**: Tableau, Plotly, D3.js,