Yu Liu

Machine Learning Engineer at LinkedIn Corp.

- Currently working on ML problems in search relevance, NLP, query auto-completion.
- Ph.D. in Computer Science from UC Irvine. B.S. in Biochemistry from Rice University.
- Experience in search ranking, deep learning, NLP, general ML stack.
- $8+$ years of experience in programming mainly in **python, Java, C++**.
- Experience in **Spark, Pig, tensorflow, Linux systems etc**.
- $15+$ academic publication on bioinformatics, $600+$ citations.

Experience

Aug. 2018 – Current **Sr. Software Engineer, Machine Learning**, *LinkedIn*.
ML engineer in Flagship Search AI team and Typeahead AI team, with a focus on query completion, search ranking, blending, building ML training/serving platforms and application of deep learning.

Jan. 2013 – Jul. 2018 **Graduate Researcher (PhD)**, *Baldi Group*, IGB, UCI.
Group specializes on Deep Learning while my focus is on Bioinformatics. Multiple publications from work on high-throughput biological data pertaining circadian rhythms and long term, large scale computational projects.

Projects

- **Deep language model based auto-complete generation**

  Ongoing. Main developer. Developing a new language model for generating more queries to suggest for auto-complete.
- **ML driven typeahead blending**

  Leading engineer for the development a new ML driven blending layer for type-ahead instant search results on LI. Drove the design and organized the implementation process. Contributed significantly to implementations of new features and online infrastructure. Achieved first public ramp with significant metrics gains.
- **Neural auto-completion ranker**

  Main contributor. Designed and implemented a new DNN based ranking model for auto-completion. Achieved significant metrics gains.
- **User engagement feature model**

  Designed, trained and implemented a people search ranking model using user engagement features. Achieved significant metrics gains.
- **Natural language search on LI**

  Participated in this project to bring NL search to LI. Implemented query intention classification and query rewriting. Co-filed patent.
- **MotifMap-RNA**

  Large scale computational biology project that predicts RNA binding sites in the whole genome using Bayesian statistics. **Contributions**: Major contributor, first author.

Education

- 2012–2018 **Ph.D, Computer Science**, *University of California*, Irvine, CA, *Graduated as Ph.D. in CS on June 15, 2018 (GPA 3.87/4.00)*.
- 2010–2012 **B.S. Biochemistry**, *Rice University*, Houston, TX, *Graduated with magna cum laude (GPA 3.8/4.0)*.
- 2008–2010 **Biochemistry and Computational Mathematics**, *Michigan State University*, Landing, MI, *Double majored before transferring to Rice*.

Links

[LinkedIn Profile] [Google Scholar Link] [ResearchGate Profile] [Personal Github]

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