**Ethan (Yongmin) Jo**

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**Profile**

Entry level Software Developer pursuing Masters of Science in Computer Science, focused in **Machine Learning**. Proficient in Java, Python, C/C++, and SQL/NoSQL. Past experiences involved Backend, database programming with Java and NoSQL Database.

**Related Skills**

**Languages** Java, Python, Matlab/Octave, C/C++, HTML/CSS, SQL

**Libraries/OS** Numpy, Pandas, Linux, Mac OSX, Windows

**Database/Tools** SQL/NoSQL, MySQL, Spark, Git, AWS(DynamoDB, Kinesis, Data Pipeline)

**Work Experience**

**Amazon.com |** eCommerce Platform **|** Software Development Engineer Intern May 2018 - August 2018  
Amazon.com is multinational technology company focusing in e-commerce, cloud computing platform, and Artificial Intelligence

* Designed and developed to enhance world-class point-of-sale discount technology for better customer experience as part of Amazon's eCommerce Platform Promotional Service
* Remodeled AWS(DynamoDB) NoSQL Database to be independent of interface version, saving staff member time 80% per new interface version introduced
* Implemented and designed backend module that aggregates and reformats data for budget execution, upgraded promotional features to support multiple budget type from single type
* Updated integration test for proper eligibility evaluation at the purchase level on an execution of promotional features
* Managed version control of promotional interface version to be aligned with other platforms

**Technologies**: Java, Linux, Backend Engineering, NoSQL, AWS(DynamoDB, Kinesis, Data Pipeline)

**Bristol Myers Squibb |** Process Development **|** Associate Scientist June 2015 - April 2018

Bristol-Myers Squibb(BMS) is an American Fortune 100 pharmaceutical and biotechnology company specializing in anti-cancer biologics drug

* Predicted glucose consumption rate in cell culture by Visual Basic for Application and statistical analysis(JMP) to recommend glucose amount to feed
* Created a macro-enabled excel sheet using Excel VBA to automate upstream material inventory, generating an experimental template, and adding data to the database, saving 3 hours of staff member time per week
* Pioneered building and management of Upstream and Recovery experiments database using Microsoft Excel and Spotfire
* Developed and led new recovery process in early-stage fermentation drug, which decreased Host Cell Protein by 20% and increased overall yield by 15% (project goal was 5% increase in overall yield)
* Ensured frequent completion of lab tests, recording, and management of both offline and online experiment data

**Technologies**: VBA(Visual Basic for Application), JMP, Spotfire, Microsoft Excel, nova BioProfile FLEX analyzer

**Education**

**University of Southern California , Los Angeles CA** Aug 2017 - Current

*Masters of Science in Computer Science (Machine Learning), GPA 3.85/4.0*

* **Honors/Awards**: USC Computer Science Scholarship, USC Viterbi Scholarship
* **Course Highlights**: Foundation of Artificial Intelligence, Machine Learning, Database Systems, Operating System,

Computer Network, Analysis of Algorithm

**University of Washington, Seattle WA** Sep 2010 - June2015

*Bachelors of Science in Chemical Engineering*

* **Honors/Awards:** 9 timesDean’s List
* **Leadership**: Founder and President of Korean Student Union Basketball Team - 50+ members
* **Course Highlights:** Java Programming I/II, Data Structure and Algorithm, Elements of Statistical Methods

**Certificates**

* **Machine Learning** by Stanford University on Coursera, earned at March 2019
* **Analytics and Big Data - Machine Learning Scientist** by AWS(Amazon Web Service) Educate, earned at December 2018
* **Python for Data Science and Machine Learning Bootcamp** by Udemy - In Progress
* **Machine Learning A-Z™: Hands-On Python & R In Data Science** by Udemy - In Progres