

Yan Xu

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Available: **Jan. 2018 — Aug. 2018**

Skills

- **Programming Languages:** (*proficient*) Java; (*familiar*) C/C++, Racket, Javascript, Typescript, Matlab
- **Web Development:** HTML/CSS, Bootstrap, jQuery, Angular, Node.js, Express, Mongoose
- **Database:** SQL, SQLite, SQL Server, JDBC, JSON, MongoDB, MapReduce, Spark, AWS
- **Tools:** Git, IntelliJ, Maven, WebStorm, Sublime Text, Vim

Education

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| Northeastern University , Seattle, WA | <i>Sept. 2016 - Dec. 2018 (expected)</i> |
| Master of Science in Computer Science, GPA 3.83 | |
| University of Washington , Seattle, WA | <i>Sept. 2014 - June 2016</i> |
| Master of Science in Chemistry, GPA 3.54 | |
| China Pharmaceutical University , Nanjing, China | <i>Sept. 2006 - June 2010</i> |
| Bachelor of Engineering in Pharmaceutical Engineering, GPA 3.3 | |

Relevant Coursework

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| • Functional Programming | • Discrete and Data Structures | • Intro to Database |
| • Object Oriented Design and Analysis | • Algorithm | • Web Development |
| • System Programming | • Computer System | • Mathematical Modeling |

Projects

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| AlgoFun - An algorithm portal for geeks(MEAN Stack Web) | <i>May 2017 - Sept. 2017</i> |
| <ul style="list-style-type: none">• Constructed a fully featured blogging web app for people to share and discuss cool topics and ideas of algorithms• Designed and implemented the interactive front-end UI utilizing Angular, Bootstrap, HTML, and CSS• Created the RESTful API web server with Node.js, Express and persisted data in a MongoDB database• Applied PassportJS and JWT for user authentication | |
| Markdown Document Processor(Java) | <i>Feb. 2017 - Apr. 2017</i> |
| <ul style="list-style-type: none">• Developed a markdown document processor that handles headers, numbering of headers as well as lists• Generated user-friendly command line interface to process a series of documents• Performed unit testing applying JUnit framework to ensure 100% functionality | |
| File Search Engine(C/C++) | <i>Jan. 2017 - June 2017</i> |
| <ul style="list-style-type: none">• Developed a file search engine, searching files which contain all of the words in the query• Implemented linked-list, hash-tables, inverted index, and index files for efficient query processing• Built a multithreaded web server front-end to the query processor using POSIX Socket API and Pthreads | |
| Percolation System(Java) | <i>June 2016 - Oct. 2016</i> |
| <ul style="list-style-type: none">• Designed a computational model for percolation system utilizing weighted union-find algorithm• Estimated the percolation threshold via Monte Carlo simulation | |

Experience

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| Research Assistant , <i>Department of Chemistry</i> , University of Washington | <i>Oct. 2015 - June 2016</i> |
| <ul style="list-style-type: none">• Programmed a 3-D scanning interface for fast home-made laser scanning microscope in Matlab | |
| Team Leader , <i>Mathematical Modeling Contest Team</i> , China Pharmaceutical University | <i>June 2007 - Oct. 2010</i> |
| <ul style="list-style-type: none">• Led a 3-member team, created a "Mathematical Modeling for Chinese Higher Education Tuition Standard" and won First Prize in 2008 China Undergraduate Mathematical Contest in Modeling(Jiangsu Contest District)• Instructed 30 team members in how to effectively utilizing programming tools to solve math models | |