Yan Xu

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Available: **Jan. 2018 — Aug. 2018**

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SUMMARY OF QUALIFICATIONS

- Proficient in object-oriented design with Java, progressing from client requirement to well-documented code
- Solid knowledge of data structures, algorithms, SQL and non-SQL database, and computer system
- Experience in full stack web development using HTML/CSS, Javascript, and MEAN stack
- Excellent interpersonal and leadership skills, great at leading and mentoring individuals to maximize productivity levels
- Effective communicator and presenter, able to communicate effectively with teammates, students, and supervisors
- Strong research and analytical skills with a multidisciplinary background in computer science, chemistry and pharmaceutical science
- Summary of technical skills:
  Programming Languages: (proficient) Java; (familiar) C/C++, Racket, Javascript, Typescript, Python, MATLAB
  Databases: SQL, SQLite, SQL Server, JDBC, JSON, MongoDB, MapReduce, Spark, AWS
  Frameworks & Tools: Bootstrap, jQuery, Angular, Node.js, Express, Swing, JUnit, Maven, Vim, Git, IntelliJ

EDUCATION

Northeastern University, Seattle, WA

Sept. 2016 - Dec. 2018 (Expected)

Master of Science in Computer Science

GPA: 3.83/4.00

Selected Coursework: Object Oriented Design and Analysis · Functional Programming · Web Development · Computer System
Discrete and Data Structures · Algorithm · System Programming · Introduction to Database

University of Washington, Seattle, WA

Sept. 2014 - June 2016

Master of Science in Chemistry

GPA: 3.54/4.00

China Pharmaceutical University, Nanjing, China

Sept. 2006 - June 2010

Bachelor of Engineering in Pharmaceutical Engineering

GPA: 3.32/4.00

Selected Coursework: Programming Language · Mathematical Modeling · Mathematical Software and Application

SELECTED ACADEMIC PROJECTS

- **Personal Website:** https://magic-stone.github.io (additional projects, details, and links here)

AlgoFun - An algorithm portal for geeks(MEAN Stack Web)

May 2017 - Sept. 2017

- Constructed a fully featured blogging web app for people to share and discuss innovative ideas for algorithms
- Designed and implemented an interactive front-end UI utilizing Angular, Bootstrap, HTML, and CSS
- Created a RESTful API web server with Node.js, Express and persisted data in a MongoDB database
- Applied PassportJS and JWT for user authentication increasing security while maintaining usability

Markdown Document Processor(Java)

Feb. 2017 - Apr. 2017

- Developed a markdown document processor that handles headers, numbering of headers as well as lists
- Generated a 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++)

Oct. 2016 - Mar. 2017

- Developed a file search engine, searching files containing 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

LEADERSHIP EXPERIENCE

Teaching and Research Assistant, *Department of Chemistry,* University of Washington

Sept. 2014 - June 2016

- Instructed 110 students in organic chemistry, improved their understanding of key concepts and mechanisms
- Programmed a 3-D scanning interface for a fast home-made laser scanning microscope in MATLAB

Team Leader, *Mathematical Modeling Contest Team,* China Pharmaceutical University

June 2007 - Oct. 2010

- Led a 3-member team, created a "Mathematical Modeling for Chinese Higher Education Tuition Standard" and won First Prize in the 2008 China Undergraduate Mathematical Contest in Modeling (Jiangsu Contest District)
- Instructed 30 team members in how to effectively utilize programming tools to solve math models