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Yan Xu

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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
- 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
- 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 highly interdisciplinary background in software engineering, chemical science, and pharmaceutical engineering

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

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

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