Kaile Ye

Software Developer
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Education

Stony Brook University

Stony Brook, NY
Aug. 2013 - PRESENT (Expected Graduation: May 2017)

Bachelor of Science, Computer Science

- GPA: 3.34
- Computer Science Honors Program, Presidential Scholarship
- Relevant Coursework: Algorithms, Data Structures, Computer Networks, Advanced Systems-Level Programming in Unix/C, Operating Systems, Internet Programming

Skills/Strengths

Languages	• Proficient in Java and C. Experienced with HTML, CSS, and JavaScript. Familiar with MySQL and LaTeX.
Operating Systems	• Comfortable programming on Windows and *nix environments.
Teamwork	• Comfortable working both individually and on a team. Able to communicate well. Experienced with distributed version control systems such as git.
Writing	• Able to write clear and concise reports and presentations.
Professional	• Neat, organized, honest, detail-oriented, and a quick learner. Open to new ideas and feedback.

Projects

Xv6 Extensions

Feb. 2016 - Apr. 2016

- Implemented advanced extensions to xv6, a simple Unix-like operating system.
- Redesigned the simple round-robin scheduling policy into a lottery scheduling policy, which grants more CPU timeslices to higher priority processes.
- Developed the Unix Fast File System by dividing xv6's single block system into multiple block groups, and designed heuristics such as: placing new directories in the least-utilized block group, placing files of the same directory in the same block group, and spreading large files across multiple block groups.

Exam Center Scheduling Website

Aug. 2015 - Dec. 2015

- Collaborated with three other students to develop an exam scheduling website for Stony Brook University's recently renovated Frey Hall testing center. Directed team meetings and helped divide project responsibilities. Presented the final product.
- Devised JPA mappings between Java objects and a MySQL database for back-end persistence.
- Implemented actual utilization and expected utilization formulas to calculate student usage for the testing center at specific date ranges.
- Created Java servlets to handle HTTP requests from the front-end, such as report generation for various statistics.

Shazam in Java

Jan. 2014 - May. 2014

- Utilized Fast Fourier Transformation to convert chunks of audio data time domain into frequency domain, and frequencies of peak intensity were indexed for songs to be matched with smaller pieces of identical music.