Weiqi Feng

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Education

- **Wheaton College**, *Bachelor of Arts*, Norton, MA   *Aug 2015 — Anticipated May 2019*
  Double Major in Mathematics and Computer Science; Minor in Statistics   GPA: 3.89/4.0
  Honors: Balfour Scholarship; Mars Faculty-Student Research Grant; May fellow

- **Subsidiary High School of Taiyuan University,** *High School Diploma*, Taiyuan   *June 2015*

Publication

- Feng. W., LeBlanc D. M. (in press) "Top-10 Suggestions from a Decade of Managing Undergraduate Software Teams." The Journal of Computing Sciences in College.
- Zhang. C., Feng. W., Steffens. E., Landaluce d. A., Kleinman. S., LeBlanc D. M. "Lexos 2017: Building Reliable Software in Python." The Journal of Computing Sciences in College, v33(6), 124-134.

Projects

- **Lexos** project supported by the *National Endowment for the Humanities (NEH)*. ⌗
  This software provides English Scholars a web-based workflow for text processing, statistical analysis and visualization of results when exploring digitized texts. Having 20,000 lines of python code in the back-end and 9000 lines of front-end code, Lexos has been developed over 10 years and will keep growing.
- Re-Designing the course selection web page of Wheaton College. ⌗
  Self-started initiative to redesign Wheaton College's course selection page to provide a more pleasant user experience.
- Honor Thesis in Abstract Algebra and Cryptography. ⌗
  Developed a text shuffling encryption schema and a key exchange protocol inspired by group theories in Rubik's Cubes.
- Salt Spray Deicing System (SSDS).
  Develop Arduino code to detect temperature and completely autonomize Deicing System.

Leadership & Experience

Lexomics Research Group, Wheaton College, Norton, MA
Leader of Software Development Team   **May 2018 — Present**

- Trained team of 8 software developers in Linux systems, git, continuation integration and code coverage tools to familiarize them with development environment.
- Maintained high code quality within the team by establishing good practice through peer reviews.
- Prepared manuals and documentation on the installation and maintenance of the Lexos software.
- Designed interactive visual graphics using Plotly to simplify clustering analysis results to improve ease of comprehension.

Software Developer **Jan 2017 — Dec 2017**
- o Worked with a team of 8 programmers and 4 English scholars to improve the Lexos software.
- o Refactored code base under the model-view-controller architectural pattern to provide an environment for stateless functions.
- o Designed unit tests under established standards to improve reliability of the Lexos code base.

Wheaton College Computer Science Department, Norton, MA **Sep 2017 — Present**
System Administrator
- o Maintain Ubuntu server that hosts the computer science department homepage, and performed weekly backups of user data.
- o Install and configure software, hardware and networks for workstations in the computer science lab.
- o Evaluate systems' performance and troubleshoot problems reported by users.

Wheaton College Filene Center, Norton, MA **Sep 2016 — Dec 2018**
Calculus and Statistics Tutor
- o Assist students with different software such as Mathematica to improve problem-solving skills.
- o Attend monthly meetings to discuss tutoring techniques to be inclusive to all backgrounds.

Wheaton College Computer Science Department, Norton, MA **Jan 2018 — May 2018**
Data Structure Grader
- o Wrote scripts to automate the process of grading C++ code assignments.
- o Assessed student projects using provided rubric to evaluate their performance while suggesting future improvements to the rubric.

Taunton Housing Authority, Taunton, MA **Feb 2017 — May 2017**
Computer Science Mentor
- o Taught six elementary school students simple coding practices using the program Scratch.
- o Developed program to explain different controls that are used in basic programming.

Wheaton College Admission Office, Norton, MA **Sep 2016 — May 2017**
Skype Interview Internship
- o Interviewed prospective international students to gauge their involvement in the Wheaton admission process.
- o Reported applicant's English proficiency, personality, and extra-curricular activities to supervisor for admission consideration.

HSBC, Taiyuan, Shanxi, China **May 2016 — Aug 2016**
Quantitative Analyst Intern
- o Ran multiple regression models to determine important factors for lowering the risk and enlarging the benefit in investment plans.
- o Calculated yearly profit for 3 financial products using R program, leading to the creation of various advertisement models.
- o Designed Excel worksheet that helps calculate the optimal solution for client investments.

Programming Skills

Experienced in: Python, C++, LaTeX
Familiar with: Haskell, JavaScript, JAVA, R, Mathematica