Clarissa Xue

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EDUCATION

Rochester Institute of Technology, Rochester, NY
 Bachelor of Science in Human-Centered Computing | Minor in Mathematics, expected May 2020
Cumulative GPA: 3.19 (RIT Founders Scholarship, Dean's List Fall 2015, Spring 2016)
Relevant Coursework:

Data Types & Structures	Web & Mobile Dev.	Digital Media Design
Java & Python Programming	Software Dev. Process	Swift iOS

SKILLS

Programming Languages: Java, Python, JavaScript, CSS/HTML, C, Scala, Swift, TeX, SQL, ReactJS, React Native
Web Frameworks: Spark Java, Django
Operating Systems: Mac OS X, Windows, Unix/Linux
Software: IntelliJIDEA, Xcode, PyCharm, GitKraken, Microsoft Office, MATLab, Photoshop, Illustrator

PROJECTS

WebCheckers | *Spark Java*: a web-app for online users to play American Checkers
- Developed a working product in a 4-person team by following **OpenUP** and **Scrum** practices
- Applied SOLID and GRASP principles to create a robust, expandable application
- Wrote and performed **Unit**, **Integration**, **Acceptance**, and **Regression** tests, reached 80% Code Coverage

Solitaire Chess | *Java*: a GUI game based off of chess
- Implemented JavaFX library due to its simple coding and clear separation of MVC
- Used **backtracking** to iterate through valid configurations until an optimal solution was found
- Utilized **pruning** techniques to efficiently eliminate invalid configurations

Blackout Puzzle | *Python*: a strategy game to remove numbers and operators to satisfy the given equation
- Designed data structures, such as a binary search tree, to parse the equation and output a valid solution

Student Placer | *Python*: a simulation of assigning housing for RIT students
- Nested hash tables simulated the different floors of each building and placed students according to a unique ordinal value of their name
- Linked lists were used to store students' belongings and avoid collisions

Eight Ball | *Swift*: a simulation of an eight ball with passive-aggressive fortunes
- Created an iOS application using case statements, a **model-view-controller** pattern, and Photoshop

EXPERIENCE

Center for Residence Life, RIT | Rochester, NY Fall 2015–Current
 Office Attendant
- Provide friendly customer service to students and visitors through phone calls and in person
- Support daily office activities through scheduling and office administration

Society of Asian Scientists and Engineers, RIT | Rochester, NY Fall 2015-Current
 Head of Relations Committee, Member
- Professionally represent club at outreach events, on-campus collaborations and maintain sponsorships and partnerships with local companies
- Volunteering at local organizations, such as Lollipop Farms

Junior Achievement | San Diego, CA July 2014
 Robotics Intern
- Assisted middle school students with wiring, programming, and testing their Arduino robots
- Provided back office IT support for the program overall

EXTRACURRICULAR ACTIVITES

Awards: WiC Hackathon 2018: Best Newbie Hack, Runner-Up/Honorable Mention
Clubs: Women in Computing, Vis Viva, Women in Technology
Hobbies/Interests: Reading, Arts & Crafts, Food, Traveling, Basketball, Rugby