

Lucy Zhao

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EDUCATION	<p>The University of Texas at Austin, Austin, Texas Aug 2016 – Present</p> <p>Bachelor of Science in Computer Science, Turing Scholar Bachelor of the Arts in Plan II Honors</p> <ul style="list-style-type: none">▪ Coursework:<ul style="list-style-type: none">• Algorithms & Data Structures (Honors)• Discrete Math (Honors)• Sequences, Series, & Multivariable Calculus• Computer Organization & Architecture (Honors)–Will be taken in Spring 2017▪ Cumulative GPA: N/A <p>Tom C. Clark High School, San Antonio, Texas Aug 2012 – Jun 2016</p> <ul style="list-style-type: none">▪ Relevant Activities and Coursework:<ul style="list-style-type: none">• 2016 Google Code-In (worked on documentation and updated Templates for Wikimedia)• UIL Computer Science (2016 State Contestant)• AP Computer Science (basic data structures, algorithms, and GridWorld API)▪ Valedictorian, Cumulative GPA: 4.0 / 4.0
EXPERIENCE	<p>FIRST Robotics Competition Team 3997, San Antonio, Texas May 2015-May 2016</p> <ul style="list-style-type: none">▪ Programmer, Electronics Team, and Awards Presenter<ul style="list-style-type: none">• Participated in designing, building, and programming robots for competition.• Personal responsibilities during off-season included handling social media, fundraising, and community outreach.• Worked on programming (Java, C/C++), electronics, and awards presentations during competition season. <p>Greehey Children's Cancer Research Institute, San Antonio, Texas Summer 2014</p> <ul style="list-style-type: none">▪ Summer Intern, Mentor: Dr. Yidong Chen<ul style="list-style-type: none">• Contributed to a web-development project focused on the creation of a database for large quantities of gene data.• Constructed an interactive visual representation for gene data using Circos, javascript, Java, PHP, and HTML.• Used HTML/CSS to fine-tune and maintain the website.• Coauthor of MeT-DB: a database of transcriptome methylation in mammalian cells (PMID:25378335), published 2014 in the journal <i>Nucleic Acids Research</i>.
PROJECTS	<ul style="list-style-type: none">▪ Markov Chain (Java) Sept 2016 Implemented a program using Markov Chains to generate random text based on a random seed from source text.▪ Image Manipulator (Java) Aug 2016 Implemented a program applying basic effects (black & white, shrink, grow, etc.) and neighborhood filters (smooth, sharpen, de-noise, highlight edges, etc.)▪ Image Manipulator (C/C++) Dec 2015 Worked on a 3-person team to create a program to apply black & white, sharpen, blur, and edge detection effects to images to become acquainted with the C++ programming language.▪ Spaceship-Asteroid "Shoot 'em up" Game (Java) May 2014 Created a game with a JFrame GUI in which user maneuvers a spaceship with the keyboard to avoid and shoot falling asteroids.
LANGUAGES AND TOOLS	<p>Proficient: Java</p> <p>Familiar: Linux, Git, Arduino</p> <p>Exposed to: Javascript, HTML/CSS, PHP, C/C++, Excel</p>
CAMPUS ACTIVITIES	<p>Information and Systems Security Society (ISSS) Aug 2016 – Present</p> <ul style="list-style-type: none">▪ Member<ul style="list-style-type: none">• Attending weekly workshops on web security• Engaging in hands-on exercises find, using, and protecting against web security exploits
PUBLICATIONS	<p>Liu,H., Flores,M.A., Meng,J., Zhang,L., <u>Zhao,X.</u>, Rao,M.K., Chen,Y. and Huang,Y. (2015) MeT-DB: a database of transcriptome methylation in mammalian cells. <i>Nucleic Acids Res.</i>, 43, D197–D203</p>