

Alexander Tsun

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Education	<p>University of Washington, Seattle, WA Graduation Year: 2018 (exp) Bachelor of Science in Computer Science, Mathematics GPA: 3.87, Senior Standing Monta Vista High School, Cupertino, CA Graduation Year: 2014 Weighted Academic 10-12 GPA: 4.44, Unweighted Cumulative GPA: 3.82</p>
Project List	<p>DubHacks Hackathon – 1st Place for Use of MOJIO API (October 2014) Part of a team of five to create <i>Rhythmic Ride</i>, an Android app using car and location data to determine speed and speed limits, and change music tracks to subconsciously change the driver's speed. Worked to play audio and ensure smooth transitions between songs.</p> <p>Android Applications (Summer 2013) Boy Scout <i>Merit Badge App</i> (10,000+ downloads) provides simple user interface for Scouts to look up requirements for popular and required merit badges. <i>ConnectMore</i> app (1,000+ downloads) is a variation of the Connect Four game.</p>
Work and Volunteer Experience	<p>BloomReach, Inc. (Jun 2015 – Sep 2015) Worked as an engineering intern. Saved company resources by removing the need for a proxy server, and designed a better and more intuitive user interface for customers. Doing this decreased page load time for customers from 5-10 seconds to 1 second.</p> <p>InstaEDU (Oct 2014 – Present) Tutor computer science, mathematics, and statistics online to high school and college students.</p> <p>Brighter Future Learning Center (Jun 2012 – Aug 2012, Jun 2014 – Sep 2014) Worked as a math teacher helping elementary and middle school students. Taught math from basic operations to algebra and geometry.</p> <p>Monta Vista High School (Aug 2011 – June 2012) Teaching assistant for my Chinese 4 Honors teacher. Graded tests, homework, and helped the teacher instruct at times.</p> <p>Eagle Scout (Boy Scouts of America) (2007 – 2014) Planned and executed a service project to help a church tear down and construct a shed. Used Google sites to create a site for my patrol.</p>
Technical Skills	<p>Languages/Skills: Java (proficient), C++, C, HTML, CSS, JavaScript, Python, SQLite, ASM Tools: Eclipse, Microsoft Visual Studio, Git, Linux</p>
Computer Science Courses	<p><u>CSE 143</u>: Computer Programming II (4.0), <u>CSE 332</u>: Data Abstractions (3.7) <u>CSE 311</u>: Foundations of Computing I (4.0), <u>CSE 312</u>: Foundations of Computing II (3.9) <u>CSE 351</u>: Hardware/Software Interface (3.8), <u>CSE 390A</u>: System and Software Tools (CR)</p>
Math/Stat Courses	<p><u>MATH 126</u>: Calculus III (4.0), <u>MATH 307</u>: Intro to Differential Equations (4.0) <u>MATH 308</u>: Matrix Algebra (4.0), <u>MATH 327/328</u>: Introductory Real Analysis I/II (4.0/4.0) AP Calculus BC (A, A), AP Statistics (A, A), Discrete Mathematics (A)</p>
Planned Courses (2014-2015)	<p><u>CSE 331</u>: Software Design & Implementation, <u>CSE 421</u>: Intro to Algorithms <u>CSE 344</u>: Intro to Data Management, <u>CSE 333</u>: Systems Programming <u>CSE 446</u>: Machine Learning, <u>CSE 521</u>: Design & Analysis of Algorithms I <u>STAT 394/395/396</u>: Probability I/II/III, <u>STAT 340</u>: Probability & Mathematical Statistics <u>STAT 341/342</u>: Probability & Statistical Inference I/II, <u>MATH 309</u>: Linear Analysis</p>
Math Competitions	<p><u>American Mathematics Competition (Honor Roll)</u>: AMC 12A (105), AMC 12B (108) <u>American Invitational Mathematics Examination</u>: AIME I (4)</p>
Standardized Tests	<p><u>ACT Composite</u>: 34, <u>SAT I (Superscore)</u>: 2270</p>
Android Application Links	<p>https://play.google.com/store/apps/details?id=com.alextsun.MeritBadgeApp&hl=en https://play.google.com/store/apps/details?id=com.alextsun.ConnectMore&hl=en</p>