

Kirk Jackson

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EDUCATION	<p>Tufts University Medford, MA Bachelor of Science in Computer Science, expected May 2015 GPA: 3.80, Dean's List</p>
RELEVANT COURSES	<p>Visualization, Algorithms, Web Programming, Data Structures, Computation Theory Machine Structure & Assembly Language, Programming Languages, Calculus Discrete Math, Statistics, Linguistics, Geological Applications of GIS</p>
PROJECTS	<p><u>Lossy Image Compressor & Decompressor</u></p> <ul style="list-style-type: none">Utilized modular interfaces to pack 2x2 rgb pixel blocks into 32-bit wordsCompresses images to 1/3 of original size, losing 1.5 – 2.5% of image data <p><u>Image Rotation</u></p> <ul style="list-style-type: none">Designed an interface for polymorphic 2D unboxed blocked arrays in CImplemented an image rotation program that optimizes runtime by using this blocked interface to increase spatial locality within caches <p><u>Interactive Processing Visualizations</u></p> <ul style="list-style-type: none">Implemented Force Directed Graph, Squarified Treemap, NodeTrix, Heatmap, Coordinated-Multi-View System, Bar Chart, Line Graph, and Pie Chart with animated transitions <p><u>GIS Spatial Analysis</u></p> <ul style="list-style-type: none">Developed least-cost siting models for desalination projects in Southern California using weighted raster analysis
EXPERIENCE	<p>Malden MAKERspace Malden, MA <i>Tufts MAKER Education Fellow</i> September 2014 – present</p> <ul style="list-style-type: none">Taught 3D printing and lego robotics to high school students <p>Nokia HERE Maps Cambridge, MA <i>Intern</i> May – August, 2014</p> <ul style="list-style-type: none">Integrated Yelp sourced content to enrich HERE mapping platform <p>Apogee Adventures Brunswick, ME <i>Trip Leader</i> May – August, 2013</p> <ul style="list-style-type: none">Coordinated trip logistics, meals, and group dynamics while leading multi-week biking trips for teenagers in Vermont and Quebec <p>Tufts Development Technology Lab Medford, MA <i>Workshop Developer & Teacher</i> January – May, 2012</p> <ul style="list-style-type: none">Developed and taught early-education robotics and engineering curriculum
SKILLS	<p>Software ArcGIS, AutoCAD, Autodesk Inventor, LEGO Mindstorms, MS Office Programming Languages C, C++, Processing, HTML, Javascript, CSS, JQuery, SQL Languages Spanish - fluent, Mandarin – conversational</p>
ACTIVITIES	<p>Tufts Teen Outdoor Program <i>Co-founder</i></p> <ul style="list-style-type: none">Coordinated grant money to implement weekly outdoor program for teens <p>Tufts Ears for Peers <i>Coordinator</i></p> <ul style="list-style-type: none">Managed student counseling and support hotline <p>Tufts Wilderness Orientation <i>Trip Leader</i> Teach-in CORES <i>ESL Teacher</i></p>