Shane Deiley

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EDUCATION

Washington University in St. Louis — St. Louis, MO
Dual Degree Candidate, Expected Graduation: May 2016
Bachelor of Science: Computer Science
Bachelor of Science: Systems Science and Engineering
Secondary Major: *Applied Mathematics*

Total GPA: 3.79/4.0
Computer Science GPA: 4.0/4.0

Relevant Coursework

* Courses to be taken Fall 2014

Data Structures and Algorithms (Java)	Computer Science I & II (Java)	Calculus of Several Variables
Introduction to Machine Learning (Matlab)*	Creative Programming* (Web. Dev. & SQL)	Signals and Systems (Mathematical Modeling)
Probability and Statistics for Engineering	Object Oriented Software Development (C++)	Matrix Algebra (Linear Algebra)

TECHNICAL PROJECTS

Find relevant code repositories via **https://github.com/sdeiley/School-Assignments**

***Comparing (Modeled) Genomic DNA Sequences*, Java**
– Implemented an open-addressing hash table to compare simulated DNA strings while supporting fast dictionary operations

***Game Development (Magic Square, Reversi, and Nine Almonds)*, C++**
– Practiced polymorphism, O-O-P, dynamic memory mgmt., copy control, & algorithm/container use through game development

***Facial Recognition and Handwritten Digit Classification*, Matlab**
– Utilized Lin. Alg. to implement K-NN learning algorithm to successfully find correct faces and handwritten digits with 96% accuracy

TECHNICAL SKILLS

Software: Extensive experience in Java, Matlab, C/C++, Cilk, HTML/CSS/PHP and Unix; familiar w/ Python and R
Communication: Excellent public speaker, customer service provider, and salesman; Extensive experience pair-programming

RESEARCH EXPERIENCE

Washington University Computer Science Research Experiences for Undergraduates (REU) — St. Louis, MO, Since May 2014
Parallel Data Structures, under Dr. Kunal Agrawal (and partner Alex Jones, USC)

Implemented and augmented an order-maintenance data structure supporting O(1) time queries and O(1) amortized time inserts to be utilized in parallel applications for race-condition detection – early results indicate mere constant slowdown when on-the-fly race detection is enabled.

AWARDS AND HONORS

Mentor, Job and Leadership Training Program, Mission St. Louis — St. Louis, MO, Summer 2014
– Guided two formerly convicted men through a personal-growth program with goal-oriented bi-weekly meetings

Case Competition, Finalist, Olin Business School of Washington University — St. Louis, MO, Fall 2012
– Proposed advertising solutions utilizing user Yahoo, Inc. and presented findings to Google and Class of 2016

Dean's List (Fall '12, Fall '13, Spring '14**)** — 2012-2014