

CURRENT ADDRESS

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Shane Deiley

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330-550-9949

PERMANENT ADDRESS

7011 W. Western Reserve Road
 Canfield, OH 44406

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 being taken, Fall 2014

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

TECHNICAL SKILLS**Programming and Software**

– Proficient w/ Java, Matlab, C/C++, Cilk, HTML/CSS/PHP, SQL, Unix, Apache, and Visual Studio; familiar w/ Python & R

Communication

– Excellent public speaker, customer service provider, and salesman; Extensive experience pair-programming

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 through Supervised Learning, Matlab

– Utilized Lin. Alg. to implement K-NN learning algorithm to successfully find correct faces and handwritten digits with 96% accuracy

RESEARCH EXPERIENCE**Washington University Computer Science Research Experiences for Undergraduates (REU)**

St. Louis, MO

Parallel Data Structures, under Dr. Kunal Agrawal (and partner Alex Jones, USC)

Since May 2014

– 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

– Guided two formerly convicted men through a personal-growth program with goal-oriented bi-weekly meetings

Summer 2014

Case Competition, Finalist, Olin Business School of Washington University

St. Louis, MO

– Proposed advertising solutions utilizing user Yahoo, Inc. and presented findings to Google and Class of 2016

Fall 2012

Dean's List (Fall '12, Fall '13, Spring '14)

2012-2014