# **Shane Deiley**

**CURRENT ADDRESS** 6515 Wydown Boulevard St. Louis, MO 63105 Campus Box 3090

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PERMANENT ADDRESS 7011 W. Western Reserve Road Canfield, OH 44406

#### **EDUCATION**

#### Washington University in St. Louis

Bachelor of Science: Computer Science

Secondary Major: Mathematics: Probability and Statistics

Expected Graduation: May 2016

St. Louis, MO

**Total GPA: 3.79/4.0** 

Computer Science GPA: 4.0/4.0

\* Courses being taken, Fall 2014

#### **Relevant Coursework**

Computer Science I & II (Java) Financial Mathematics (Excel)

Data Structures and Algorithms (Java)

Matrix Algebra (Linear Algebra) Introduction to Machine Learning (Matlab)\* Creative Programming\* (Web. Dev. & SQL)

Independent Study in Parallel Data Structures Probability and Statistics for Engineering Object Oriented Software Development (C++)

#### TECHNICAL SKILLS

#### Programming and Software

Proficient w/ Java, Matlab, C/C++, Cilk, Web Dev. Languages and SQL, 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)

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

St. Louis, MO 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

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

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

St. Louis, MO

St. Louis, MO Summer 2014

Fall 2012

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

2012-2014