

CURRENT ADDRESS

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Shane Deiley

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PERMANENT ADDRESS

7011 W. Western Reserve Road
Canfield, OH 44406

SUMMARY

A determined second year engineering student seeks a software engineering internship in order to aid in the creation of something useful and rewarding by utilizing communication skills and experience as well as quantitative inclinations to contribute to a team and its goals.

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: 3.77/4.0

Relevant Coursework

* Courses being taken in the Spring, 2014

Data Structures and Algorithms	Computer Science I (Introductory Java)	Statistics and Data Analysis
Object-Oriented Software Develop* (C++)	Computer Science II* (Second course in Java)	Matrix Algebra (Linear Algebra)
Probability and Statistics for Engineering	Computational Modeling for Social Sciences*	Multivariable Calculus (Intro Analysis)

TECHNICAL PROJECTS

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

Comparing Genomic DNA Sequences, Java

- Implemented an open-addressing hash table data structure, allowing for efficient search, insert, and delete operations while handling collisions by using a doubling procedure to keep the load factor below $\frac{1}{4}$; the hash table's effectiveness was confirmed as it was successfully utilized in the finding of all similar strings of equal length in two DNA (string) strands

Computational Geometry (Closest Pair of Points), Java

- Solved the closest pair of points problem (2D Plane) using a stable version of Merge Sort and a Divide and Conquer approach
- Results consistently found the closest pair of a set of one million points in less than one second, 8th best in a class of 140

Statistical Data Analysis, R

- Modeled regression lines, confidence intervals, p-values, plots, and more with various sets of data

TECHNICAL SKILLS

Software: Proficient in Java, C++, Python, and Matlab; Experience with R and Mathematica

Communication: Excellent public speaker, customer service provider, and salesman; familiarity with Spanish

LEADERSHIP EXPERIENCE**National Honor Society, Vice President, Canfield High School, 60 Members**

Canfield, OH

- Tutored students in the ACT examination; results included an improvement of at least 12.5% per student
- Served at a local soup kitchen weekly; Raised funds for Multiple Sclerosis (M.S. Walk) exceeding \$1,500

2010-2012

Public Forum Debate, Team Leader, Canfield High School, 12 Members

Canfield, OH

- Coached and led the Canfield Debate Team to a team state title; personal State and National finalist

2012

WORK EXPERIENCE**Summer Programs and Conference Services, Washington University**

St. Louis, MO

- Various responsibilities; Team of 6 checked in 1500 clients in 1.5 hours using an assembly line approach

Summer 2013

Vector Marketing, Incorporated, Senior Advisor

Boardman, OH

- Sold over \$16,000 in fine cutlery with a 75% sale rate in one month, earning Regional Sales Leader award
- Attended two national training conferences and trained new representatives with the skills learned

July 2012

AWARDS AND HONORS**Case Competition, Finalist, Olin Business School of Washington University**

St. Louis, MO

- Proposed advertising solutions utilizing user data and market-trend analysis for Yahoo, Inc.
- Presented findings to Google Inc. Executives and the Olin Business School Class of 2016 (about 450 people)

Fall 2012

Dean's List (twice)

2012-2013