Skills

• Full-stack Web Engineering

- HTML, CSS (Compass, LESS), ¡Query
- o node.js, PHP (Yii, Zend)
- SQL (MySQL), NoSQL (MongoDB)
- Design

• Native Android Development

• Assorted Programming

- o C/C++
- Linux
- Git

Mathematics

2013 Putnam Score: 10

Experience

• MetabolismFun - Solo Full-stack Web Engineering

- An online, educational game created to teach cellular metabolism at a university level.
- The idea was formulated by Dr. Neocles Leontis; I developed the entire application for use in his class.
- Features a playable turn-based game forcing the player to learn metabolic pathways to maximize certain outputs, customizeable settings, saved games, and a flat, responsive appearance.

• Personal Robotics - Intern; Android Development

 I designed an Android application for in-house use that simplified normally difficult tasks such as adjusting motor position, displaying sensor output, or sending a direct command.

• Agile Oasis Technologies - Intern; General Web Development

 I worked on a number of projects, generally designing frontend pages for contracted websites.

• Game of Life - Independent Project

- A simulation of Conway's Game of Life, developed in Java to run on a desktop computer.
- A game as much as a tool, the program allows users to work on an infinite grid, place predifined patterns, and watch cells evolve over time.

Education

• Carnegie Mellon University

Current sophomore in the Mellon College of Science, majoring in
Mathematics with a minor or possible double major in Computer Science.

Bowling Green State University

- I took many mathematics classes during high school at BGSU.
- Cumulative GPA: 4.0

• Saint John's Jesuit High School

o Graduated in 2013 as Valedictorian with a cumulative GPA of 4.8.

Dominic Zirbel

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