Skills

Full-stack Web Engineering

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

Native Android Development

Assorted Programming

- C/C++, Python solid foundation in the feel, style, and uses of these and other languages
- Linux day-to-day use and comfort with top-level components (command line, scripting)
- Git extensive use for many years

Mathematics

∘ 2013 Putnam Score: 10

Experience

- MetabolismFun Full-stack Web Engineering
 - An online, educational game created to teach cellular metabolism at a university level.
 - Worked with Dr. Neocles Leontis at BGSU to develop the game for his classes; I was responsible for programming, design, and deployment.
 - Features a playable turn-based game forcing the player to learn metabolic pathways to maximize certain outputs, customizable settings, saved games, and a flat, smooth appearance.
- Personal Robotics at CMU Intern; Android Development
 - Designed an Android application for in-house use on a humanoid robot 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
 - Worked on a variety of projects, generally designing and building the frontend 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
 - Sophomore in the Mellon College of Science, majoring in Mathematics with a minor or possible double major in Computer Science.
- Bowling Green State University
 - Took many mathematics classes during high school at BGSU, including advanced Probability/Statistics and Master's level Analysis.
 - Cumulative GPA: 4.0
- Saint John's Jesuit High School
 - Graduated in 2013 as Valedictorian with a cumulative GPA of 4.8.

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