Full-Stack Web HTML (Jade), CSS (Compass, LESS), JavaScript (iQuery) 412 204 7462 Development PHP (Yii/Yii2, Zend), node.js Now SQL (MySQL), NoSQL (MongoDB) Interest and real-world experience in Interface Design General Native Android Development - practical experience, deep knowledge of the Java API Programming C/C++, Python, Java - solid foundation in the style and uses of these languages 2016 Linux - day-to-day usage and comfort with top-level components (command line, scripting) Git - extensive use for many years **Mathematics** Strong academic core, particularly in Graph Theory, Combinatorics, Linear Algebra, and Analysis Analytical thinking and problem solving ■ Putnam Exam Scores: 2013 - 10 (~70th percentile), 2015 - 1 (~50th percentile) 2015 **Experience** ■ Imaging Systems Developed a monitoring and control tablet app to display data from a manufacturing process in **Technology** order to fine tune the procedure. Gathered live data via Bluetooth; tracked averages, regressions, and errors; displayed a powerful realtime graph; and kept logs of past runs. Intern: Android Development I used the native Android SDK in Java and my focus was on creating an app capable of handling Summer 2016 large amounts of generic data, and finding useful ways to present it to the team. 2014 ■ MetabolismFun An online, turn-based educational game forcing the player to learn metabolic pathways in an engaging, interactive way to maximize their score. Full-Stack Web Engineering I worked with Dr. Neocles Leontis at BGSU to develop the website to teach cellular metabolism in July 2013 - Jan 2015 his classes and beyond. I was responsible for programming, design, and deployment and used Yii2, jQuery, and MySQL. 2013 Agile Oasis Summer 2015: Developed social network site Project Qi. In addition to standard features (profile, friends, groups, pictures, status feed) the site aimed to connect users to non-profit organizations. I **Technologies** used Yii2, MySQL, Bootstrap, and jQuery and worked closely with the client to create the Intern; Web Development experience he had in mind. Summer 2013, 2015 Summer 2013: Designed and built the frontend for a variety of contracted websites. Personal Robotics Designed an Android application for in-house use on a humanoid robot that provided a simple interface for normally difficult tasks such as adjusting motor position, displaying sensor output, or Intern: Android 2012 sending a direct command. Development Summer 2012 Game of Life A simulation of Conway's Game of Life developed in Java, with emphasis on a smooth and intuitive interface. A tool as much as a game, the program allows users to work on an infinite grid, Independent Project place predifined patterns, and watch cells evolve, with a powerful engine for fast simulation. 2009 - 2013 2011 **Education** Carnegie Mellon Junior in the Mellon College of Science, double majoring in Mathematics and Computer Science <u>University</u> Cumulative GPA (as of Aug 2016): 3.1 2013 - Current Bowling Green Math and Computer Science classes taken during high school, including senior-level Probability/Statistics and master's level Analysis **State University** 2010-2009 - 2013 Cumulative GPA: 4.0 Saint John's Jesuit Graduated in 2013 as Valedictorian High School 2009 - 2013 Cumulative GPA: 4.8 on a 4-point scale

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