

# DAVID MATTIA

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(612)437-8532

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## Education

### University of Notre Dame

Computer Science Major

Class of 2017

GPA: 3.96/4.0

### Lakeville South High School

Class of 2013

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## Technical Skills

### Proficient in:

C/C++, Java, HTML/CSS

### Familiar with:

Python, JavaScript, Swift, Obj-C, git,

UNIX scripting

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## Relevant Coursework

### Freshman Year:

- Introduction to Engineering A

### Sophomore Year:

- Fundamentals of Computing I A
- Case Studies in Computer-Based Entrepreneurship A
- Discrete Mathematics A

### Currently Taking:

- Logic Design
- Fundamentals of Computing II
- Basic Unix for Engineers
- Research with Dr. Poellabauer
- Introduction to Probability

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## Work Experience

### Weight Trainer

- Coached highschool sports teams at Lakeville South High School for two years
- Created work out programs for eight different sports groups focusing on specific muscle groups they required
- Managed weight room activities including weight training, plyometrics, and conditioning

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## Honors

IrishHacks 3rd Place

Suzanne and Walter Scott Scholar

Engineering Scholars Programm

National Merit Scholar Commended

AP Scholar with Distinction

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## Projects

### Foobar

*Sept 26-28, 2014*

- Created a native Android application implementing Parse databases and SMS Manager
- Handled backend of the database and created many UI elements

### Web Design

*Jan 2011, present*

- Designed and Created [www.david-mattia.com](http://www.david-mattia.com), [www.david-mattia.com/ReillyWeekend](http://www.david-mattia.com/ReillyWeekend), [www.hiddenoakscottageretreat.com](http://www.hiddenoakscottageretreat.com), and have worked on parts of multiple other sites
- Familiar with multiple front-end frameworks like bootstrap and foundation

### Concussion Research

*December 2013, present*

- Analyzed speech analysis data from over 200 test subjects
- Determined the most important factors of speech in determining concussions based on data as well as the tests that showed to be the most useful

### Chiellini - A Pacman Variet Nov 2014, Dec 2014

- Recreated the classic game Pacman in C with the Xlib library for graphics

### Sudoku Algorithm Testing Feb 2014, May 2014

- Developed and tested three unique algorithms on their effectiveness at solving sudoku puzzles
- Used multiple criteria for effectiveness such as time complexity, correctness with different types of puzzles, space complexity, and ease of implementation

### Calculator Programming Sept 2009, June 2013

- Created over 1,000 functional math programs for TI83/84s
- Launched an app to compute many common problems on the ACT using Z80 Assembly

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## Volunteering

### Blood Drive Coordinator

*June 2012, present*

- Coordinated eight blood drives through the American Red Cross
- Contacted potential donors, reserved space, advertised, and organized day of activities
- Member and active volunteer of the Red Cross Club of Notre Dame

### Muscular Dystrophy Camp Counselor

*June 2013, June 2014*

- Cared for teenage camper with Duchenne muscular dystrophy
- Attended to all daily responsibilities and activities