

David Mattia

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Education

University of Notre Dame

GPA: 3.97/4.00

Computer Science Major

Class of 2017

Lakeville South High School

Class Rank: 2/431

Class of 2013

Technical Skills

Proficient in:

C, C++, Python, Unix tools,
HTML/CSS

Familiar With:

PHP, Assembly, JavaScript, Swift,
Objective C, R, MATLAB

Relevant Course Work

Freshman Year:

Introduction to Engineering

Sophomore Year:

Fundamentals of Computing I
Case Studies in Computing-Based
Entrepreneurship
Discrete Mathematics
Logic Design
Fundamentals of Computing II
Basic Unix for Engineers

Junior Year (first semester):

Compilers

Computer Architecture I

Data Structures

Database Concepts

Honors

Suzanne and Walter Scott Scholar

IrishHacks 3rd Place

Engineering Scholars Program

National Merit Scholar Commended

AP Scholar with Distinction

Military and Veterans Officer for the

American Red Cross Club

Projects and Research

Foober - Third Place Overall at IrishHacks

- Native Android application implementing Parse databases and SMS Manager
- Connected Notre Dame students looking for food with those looking to deliver for a price
- Implemented the databases and designed the UI

Sept 26-28, 2014

Sheep Herder

- Modeled realistic herd movement algorithms in C++

Mar 2015 - June 2015

Chiellini - Pacman Variant

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

Nov 2014 - Dec 2014

Pebble Development

- Natively built a variety of watchfaces and apps
- Scraped json data from online sources using javascript

Feb 2015 - July 2015

Concussion Research with Professor Poellabauer

- Analyzed very large data sets to determine the most important effects of a traumatic brain injury on speech

Jan 2015 - June 2015

Research with Professor Zhang

- Creating web applications to teach 8th/9th grade algebra in multiple different ways
- Developing a system to rank the values of various applications based on real world results

April 2015 - present

Work Experience

General Electric Intern

- Developed a shift detection algorithm using python
- Automated multiple tasks using bash, awk, python, and R scripts.
- Created a website for the People with Disabilities Network
- Contributed to the intern iOS application with the creation of search functionality, layout optimization, and custom views

May 2015 - Aug 2015

Web Developer

- Developed a variety of different types of sites with many different front ends
- Familiar with backend tools like php and SQL to manage data and users.

June 2013 - Present

Volunteering

Blood Drive Coordinator

- Coordinated nine blood drives through the American Red Cross
- Contacted potential donors, reserved space, advertised, and organized day of activities

June 2012 - Present

Muscular Dystrophy Camp Counselor

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

June 2013, June 2014