

## Education

**University of Notre Dame**  
*Reilly Dual-Degree Program*  
B.S. Computer Science  
B.A. Graphic Design  
Graduating May 2015

## Technical Skills

*Comfortable with:*  
Python, Java, JavaScript, PHP,  
Java, C/C++, Android SDK,  
SQL, Flask, HTML5, CSS3

*Familiar with:*  
Ruby, MIPS, AIX, Django

## Leadership and Activities

**Project Fresh Dance Crew**  
Breaking Commissioner, 2012 – present

**Wabruda**  
Webmaster, 2011 – present

**Stanford Hall Council**  
Webmaster, 2011 – present

## Relevant Coursework

### Theory

Design & Analysis of Algorithms  
Discrete Mathematics  
Data Structures  
Theory of Computing  
Operating Systems  
Computer Architecture  
Logic Design  
Database Concepts  
Human Computer Interaction  
Healthcare Analytics

### Programming

Fundamentals of Computing I/II (C/C++)  
Mobile Application Projects (Java)  
Android Application Development (Java)  
Building Web Applications (ColdFusion)  
Programming Paradigms (Python)  
Database Concepts (PHP/MySQL)  
Operating Systems (C, C++)  
Data Structures (C++)

### Design

2D Foundations (Adobe Creative Suite)  
Design Drawing (Sketching)  
Visual Communication Design I/II (Adobe)

## Interests and Hobbies

Web Design and Development  
Mobile Applications  
User Interface Design  
Breakdancing  
Photography

## Professional Experience

- Aug 2013 – present **iCeNSA | Undergraduate Research Assistant | Notre Dame, IN**
- Studying machine learning, data mining, and data visualization concepts for application within the healthcare industry.
- Feb 2013 – June 2013
- Developed Android application for assisting geriatric patients in nursing homes and analyzing behavior through data collected via the application. Back-end developed in Python, using a MySQL database.
- May 2013 – Aug 2013 **IBM | Software Developer Intern | Austin, TX**
- Developed Android application for remote management of AIX and PowerSC machines.
  - Developed a real-time security application for PowerSC systems, with an Android application for receiving notifications and remote security patching and a web application for data management and user activity feeds.
- Jan 2012 – Dec 2012 **Cooperative Computing Lab | Research Fellow | Notre Dame, IN**
- Developed a Python script to automate scientific simulations via a Master-Worker distributed computing framework.
  - Developed features (i.e. XML data exporting) and fixes for BXGrid, a bioinformatics research web grid, using PHP and MySQL.
- Aug 2011 – May 2012 **College of Engineering | Teaching Assistant | Notre Dame, IN**
- Assisted professors in teaching Introduction to Engineering Systems I/II lab and grading homework assignments.
- May 2011 – Aug 2011 **Department of Electrical Engineering | Research Fellow | Notre Dame, IN**
- Researched the relative bond strength of quilt-packaged microchips.
  - Developed a standard for testing quilt-packaged microchips' bond strength via a custom-built pull test machine.

## Projects

- Apr 2013 – May 2013 **Audite** (<https://github.com/iheanyi/Audite>)  
Music streaming web application, utilizes EchoNest's and YouTube's API to recommend and stream artists based on an initial input by the user.
- Feb 2013 – present **Tubalr** (<http://goo.gl/xZ90b>)  
Android music streaming application, built on top of EchoNest's and Tubalr's API. Songs are streamed from YouTube; currently has over 2,000 active installs. Awarded Second Place at the Schurz Innovation Challenge.
- Nov 2012 – Dec 2012 **INCAA** (<https://github.com/iheanyi/dbconceptsfinal>)  
PHP web application for visualizing NCAA football statistics, with data stored in an OracleSQL database.
- Nov 2012 – present **Irish Class Search** (<http://goo.gl/oO5zO3>)  
Android application for easy lookup of Notre Dame courses from phones.
- Feb 2011 – May 2011 **Otter Swag** (<https://github.com/iheanyi/otter-swag>)  
One button, side-scrolling game developed in C++ using the SDL graphics library. Voted by peers as overall Best Project in the class.

## Awards and Achievements

- June 2013 **First Place | MakeWithMoto Makeathon | Motorola Mobility | College Station, TX**
- May 2013 **Second Place | Schurz Innovation Challenge | Schurz Media, Inc. | Notre Dame, IN**
- Summer 2011 & 2012 **Balfour-Hesburgh Fellow | Balfour-Hesburgh Scholars Program | Notre Dame, IN**
- May 2010 **Balfour-Hesburgh Scholar | Balfour-Hesburgh Scholars Program | Notre Dame, IN**