

## Education

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

## Technical Skills

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

Familiar with:  
Ruby, MIPS, AIX, Django

## Leadership and Activities

2012 – present **Project Fresh Hip-Hop Dance Crew**  
Breaking Commissioner

2011 – present **Wabruda**  
Webmaster

2011 – present **Stanford Hall Council**  
Webmaster

## Relevant Coursework

Discrete Mathematics, Mobile Application Projects,  
Design and Analysis of Algorithms, Data Structures,  
Theory of Computing, Operating Systems  
Android Application Development,  
Building Web Applications, Logic Design,  
Fundamentals of Computing I (C),  
Fundamentals of Computing II (C++),  
Computer Architecture, Programming Paradigms,  
Healthcare Analytics, Human Computer Interaction,  
Visual Communication Design I/II, Design Drawing

## Interests and Hobbies

Breakdancing, emerging technologies, web  
development, web design,  
Android application development, photography,  
user interface design, machine learning,  
and data visualization

## 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 – June 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 (bioinformatics 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
- June 2013 – present **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 2k active installs. Awarded Second Place at the Schurz Innovation Challenge.
- Sep 2012 – Dec 2012 **INCAA** (<https://github.com/iheanyi/dbconceptsfinal>)  
PHP web application for visualizing NCAA football statistics, with data stored in an OracleSQL database.
- 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.
- Nov 2011 – present **Irish Class Search** (<http://goo.gl/oO5zO3>)  
Android application for easy lookup of Notre Dame courses from phone.

## 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**