

## Education

**University of Notre Dame**  
*Reilly Dual-Degree Program*  
B.S. Computer Science  
B.A. Graphic Design  
Graduating December 2014

## Technical Skills

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

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

## 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  
Data Mining

### 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++)  
JavaScript

### Design

2D Foundations (Adobe Creative Suite)  
Design Drawing (Sketching)  
Visual Communication Design I/II (Adobe)  
Technical Concepts of Visual FX (Maya)  
Interaction Design

## Interests and Hobbies

Web Design and Development  
Android Application Development  
User Interface Design  
Breakdancing

## Professional Experience

May 2014 – Aug 2014 **IBM | Software Developer Intern | Austin, TX**

- Ported various open-source software packages (Cassandra, Snappy-Java, Qpid) to IBM's POWER architecture.

May 2013 – Aug 2013

- 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.

Aug 2013 – present **iCeNSA | Undergraduate Research Assistant | Notre Dame, IN**

- Studying machine learning and data mining concepts for application within healthcare, currently targeting middle-school obesity.

Feb 2013 – June 2013

- Developed an Android application for assisting geriatric patients living in nursing homes by collecting data on daily habits and well-being, while also reminding patients about medication and daily exercise.

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.

May 2011 – Aug 2011 **Department of Electrical Engineering | Research Fellow | Notre Dame, IN**

- Developed a standard for testing quilt-packaged microchips' bond strength via a modified pull-test standard.

## 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**