

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 and design,
Android application development, photography,
user interface design, machine learning,
and data visualization

Professional Experience

Jan 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 and teaching assistants as best project in the class.

Nov 2011 – present **Irish Class Search** (<http://goo.gl/oO5zO3>)
Android application for easy lookup of class information from their 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**