

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 – 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, 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.
- 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