

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 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. Data gained from the application is stored in 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**