

# IHEANYI EKECHUKWU

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## Education

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

## Technical Skills

*Comfortable with:*  
Python, Ruby on Rails, Ruby, Ember.js,  
JavaScript, Android SDK, Django, Flask, Sass, Java,  
PostgreSQL

*Familiar with:*  
Redis, C++, NodeJS, Data Science,  
Distributed Systems/Computing, Cloudant, Express

## Design Skills

Adobe Creative Suite  
UI & UX Design  
Sketch  
Wireframing

## Leadership and Activities

**Project Fresh Dance Crew**  
Breaking Commissioner, 2012 – 2013

**Wabruda**  
Webmaster, 2011 – 2014

**Stanford Hall Council**  
Webmaster, 2011 – 2014

## Awards and Achievements

**MakeWithMoto Makeathon, 1st Place**  
Motorola Mobility, June 2013

**Schurz Innovation Challenge, 2nd Place**  
Schurz Media, Inc., May 2013

**Balfour-Hesburgh Fellow**  
University of Notre Dame, Summer 2011 & 2012

**Balfour-Hesburgh Scholar**  
University of Notre Dame, May 2010

## Interests and Hobbies

Web Design and Development  
Android Application Development  
User Interface & Experience Design  
Breakdancing

## Professional Experience

Feb 2015 – present **IBM Watson Life | Software Engineer | Austin, TX**

- Migrated the IBM Chef Watson landing page app from a Liberty WebSphere server to an NodeJS Express application.
- Refactored the landing page HTML and CSS to using Nunjucks and Sass for greater modularity and reusability.
- Created new API endpoints (with tests) for recipes and tuples using NodeJS, Express, and Cloudant.
- Developed an onboarding/tutorial experience for first-time users of the Chef Watson application.
- Configured the test environment to automatically create a test database to run tests against before destroying, ensuring a clean testing environment.

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

- Ported various open-source software (Cassandra, Snappy-Java, Qpid) to IBM's POWER architecture (Little and Big Endian) and AIX.
- Automated software builds and tests through Jenkins (GitHub hooks).

May 2013 – Aug 2013

- Developed an 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 – Dec 2014 **iCeNSA | Undergraduate Research Assistant | Notre Dame, IN**

- Studied machine learning and data mining concepts and designed a system for a web application to help reduce middle school obesity.
- Developed a prototype web application using Django, EmberJS, and Scikit Learn for analysis and comparison of various classifiers of imbalanced datasets.

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.

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

- Developed standard for testing quilt-packaged microchips' bond strength.

## Projects

Jan 2015 **Page Unliker (<http://pageunliker.com>)**

EmberJS app that uses Facebook's API to easily unlike Facebook pages. Reached the frontpage of Hacker News and #1 on ProductHunt (1/10/2015).

Sep 2014 – Oct 2014 **Notre Dame Class Search (<http://ndsearch.co>)**

Ruby on Rails & EmberJS application for easily searching and scheduling classes at the University of Notre Dame.

Feb 2013 – May 2013 **Tubalr (<http://goo.gl/xZ90b>)**

Android music streaming application, built on top of EchoNest, YouTube, and Tubalr's APIs. Awarded Second Place at the Schurz Innovation Challenge.