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 after completion.

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 unlikeFacebook 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.