Andy Vuong

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http://github.com/andyvuong

EDUCATION

University of Illinois at Urbana-Champaign
College of Engineering: **B.S. Computer Science (May 2017)**
Coursework: Discrete Mathematics, Data Structures, Computer Architecture, Systems Programming, Text Information Systems, Database Systems, Numerical Methods, Probability and Statistics in CS, Algorithms (Fall 15), Distributed Systems (Fall 15)

SKILLS

Languages: { Java, Python, C++, C, HTML, CSS, SQL, JavaScript, R }
Technology: { Apache Solr, Apache Nutch, Elasticsearch }

EXPERIENCE

Visa Inc. - Software Engineering Intern **May 2015 - August 2015**

- Developed a feature for the CyberSource payment gateway platform that allows any merchant using the CyberSource API to reroute their transactions in the event that their payment processor is down.
- Designed a process to scale the feature to over 50 payment processors.
- Developed an API request modification utility using JAXB.

John Deere - IT Intern, Solution Architecture Team **June 2014 - April 2015**

- Worked full-time during the summer and part-time during the school year as part of a one year internship to develop search solutions with Apache Solr and Apache Nutch to meet business requirements.
- Developed a full interface web search application in JavaScript with Apache Solr at its core and identified best practices and implementations for search relevancy to increase accuracy in production.
- Developed Java plugins for Apache Solr and Apache Nutch to skip scanned pdf documents in order to speed up the document indexing process on solr servers and control the data served on a search client.

University of Illinois - Research Assistant **March 2014 - September 2014**

- Assisted Ph.D computer science candidate in a human-based study exploring the Facebook News Feed curation algorithms and their effects on user experience using an application called FeedVis and the open coding research method to formulate concepts and theories.
- Co-author on academic conference paper that won a Best Paper Award at SIGCHI 2015.

PROJECTS

MetaJ/iJava

- A Java IDE for the iOS written as a hybrid mobile app. A server written in Java accepts connections from the app and programmatically compiles and invokes source code from the IDE. Standard out is sent back to the app from the server.

Lecture Insight

- A system for converting lecture videos into searchable entities written in Java.

Muse Me

- An application that generates music based on a person's mood. Using an EEG wearable, an algorithm was developed to determine a person's mood based on the brain wave readings from the wearable device.

Jumpy

- A linear algebra and numerical computation library written for Java.

ACHIEVEMENTS/ACTIVITIES

- Association of Computer Machinery (ACM): Webmonkeys, SIGBio
- University of Illinois at Urbana-Champaign : James Scholar