Andy Vuong

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EDUCATION

University of Illinois at Urbana-Champaign
College of Engineering: **B.S. Computer Science (May 2017) | James Scholar**
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
Technology: Elasticsearch, Apache Solr, JUnit, NodeJs, Git

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 ecommerce 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 and conducted regression tests using automated test tools.

John Deere - Student Developer **June 2014 - April 2015**

- Implemented a web search application using JavaScript and Apache Solr for search relevancy research.
- Improved search relevancy for an internal search application.
- Developed Java plugins for Apache Solr and Apache Nutch to detect scanned documents and subsequently speed-up the document indexing process by skipping those documents.

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. Used the open coding research method to formulate concepts and theories.
- Publication: Co-authored an academic conference paper that won a Best Paper Award at SIGCHI 2015 (can be found online).

PROJECTS

iJava

- A Java IDE for the iOS written as a hybrid mobile app using Cordova/PhoneGap. A server written in Java accepts connections from the app and programmatically compiles and invokes source code sent from the IDE. Standard output is sent back to the app from the server through a custom networking library.

Lecture Insight

- A system for converting lecture videos into searchable entities which allows students to find relevant information about topics through a summarization feature.

Muse Me

- An application built at the VandyHacks hackathon 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.

Safe Route Recommender

- A recommender engine based on adaptive information filtering that recommends the statistically safest walking path between two points on campus.

ACTIVITIES

- Association of Computer Machinery (**ACM**): SIGBio, SIGIR
- Hackathons: MHacks, PennApps, Boilermake, WildHacks, HackIllinois, VandyHacks