

Andy Vuong

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EDUCATION

University of Illinois at Urbana-Champaign

College of Engineering: **B.S. Computer Science (May 2017) | James Scholar**

Relevant Coursework: Data Structures, Computer Architecture, Systems Programming, Text Information Systems, Database Systems, Algorithms, Distributed Systems, Web Programming (Spring 15), Social Visualization (Spring 2015), Programming Studio (Spring 15)

SKILLS

Languages: Java (proficient), JavaScript, Python, HTML/CSS, SQL

Technology: D3.js, JUnit, NodeJs, Spring Boot, Git, Apache Solr, Elastic

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).
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PROJECTS

Hubble

- A twitter data visualization web application that uses D3.js and Spring Boot as a backend. Data is streamed using Twitter's API and stored in MongoDB. This is interfaced from the frontend through a RESTful API built on top of Spring.

Lecture Insight

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

Touchband

- A multiplayer game built at WildHacks 2015 that allows users to connect to a server and play digital instruments with other users in an online band. The game system is built on top of NodeJs and websockets (socket.io).

Safe Route Recommender

- A web app that allows a user to generate the statistically safest walking path between two locations on the University of Illinois's campus.

Page Web

- A web crawler that generates visualizations of web pages and links within a particular domain.
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ACTIVITIES

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