ANDREW YANG

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EDUCATION

University of Illinois at Urbana-Champaign – College of Engineering   **Urbana-Champaign, IL**
Bachelor of Science in Computer Science   *May 2018 (expected)*
· Cumulative GPA: 3.5/4.0; Class Level: Senior; Credits Hours earned: 106
· Relevant Coursework: CS125 Intro to Computer Science (Java); CS173 Discrete Structures; CS225 Data Structures (C++); CS233 Computer Architecture; MATH415 Applied Linear Algebra; CS241 System Programming; CS440 Intro to Artificial Intelligence; STAT400 Statistics and Probability.

CERTIFICATIONS

· edX Verified Certificate for CS100.1x Introduction to Big Data with Apache Spark.   *July 2015*
· edX Verified Certificate for CS190.1X Scalable Machine Learning.   *Aug 2015*
· Berkley Big Data XSeries certificate   *Aug 2015*

EXPERIENCE

Dot Star (UIUC CS 196 honor section)   **Champaign, IL**
Project Manager and Course Assistant   *May 2015 – Present*
· Prepared promotion materials and micro-lessons for the honor course.
· Helped to develop the course website (196-25.cs.illinois.edu) using Django, Bootstrap and Shibboleth single sign-on.

Entrust Datacard   **Shakopee, MN**
Software Development Intern   *May 2015 – Aug 2015*
· Refactored TruCredential codebase to use foundational libraries for common functionality across product lines.
· Replaced Log4J with Logback framework for logging.
· Experience with Java, Spring Framework, Spring MVC, Gradle, Continuous Integration with Jenkins, and Git.

NCAA March Madness BracketOdds – CS@UIUC   **Champaign, IL**
Undergraduate Research Programmer   *Oct 2014 – May 2015*
· Implemented the statistical power model based solely on NCAA seed numbers to generate brackets for "Let us fill in a Bracket for you" functionality with Python, MySQL, and AJAX. (bracketodds.cs.illinois.edu/bracket.html)
· Integrated the application with the existing static content in Apache.
· Enhanced bracket functionality to display bracket score and games picked correctly based on 2015 NCAA result.
· Exhibited and presented the website and bracket generator during UIUC Engineering Open House.

Student Space Systems – Univ. of Illinois   **Champaign, IL**
Web Developer   *Dec 2014 - Present*
· Developed the website (sss.ae.illinois.edu) for Student Space Systems, a technical organization at UIUC.
· Experiences with Node.js as backend framework, Express.js as frontend framework and jQuery library.
· Gained experience of Cloud Deployment to Heroku.

SELECTED PROJECTS

Fantasy Smash Bros   July 2015 - Aug 2015
· Designed and implemented a fantasy draft web for Smash Bros events at the EVO 2015 fighting game tournament.
· The fantasy draft site attracted over 300 participants during the three-day period before the tournament.
· Experience with Bootstrap, Express.js, Node.js, Firebase, Apache configuration, and Digital Ocean deployment.

Race Track Generator   May 2015
· Implemented convex hull algorithm to generate a racetrack by warping midpoints of the hull.
· Experiences with Python, NumPy and SciPy.

Earth Pron – http://earthpron.rocks   April 2015
· Implemented the site using Python by fetching hot posts in /r/earthporn and related subreddits and mapping them onto a webpage with Google maps background.
· Used Alchemy API to parse relevant entities in post titles and feeds them to Google's Geocoding API to fetch coordinates that appear on the map.

Smoldr, a 2014 54.io startup project   Fall 2014
· Worked on the backend RESTful service with Node.js and MySQL.
· My team won the second place in the 54.io competition.

Arduino Light Show, a 2014 WildHacks project   Nov 2014
· Used C and Python to program a light show on an Arduino chip.
· Project finished in the top ten submissions. I was invited for onstage presentation.

ACTIVITIES

ACM UIUC Student Chapter, *Member*   *2014-present*
· Staff member for the 20th annual Reflection | Projections student tech conference.
· Active member of the machine learning special interest group at ACM@UIUC.

CS @ ILLINOIS Splash, *course teacher*   *April 2015*
· Taught "Intro to Data Analysis Using Python" to perspective and admitted high school students.
· Prepared Python Tutorial and Rest API Tutorial and distributed to other Splash instructors.

SKILLS

Programming Languages, Frameworks and Tools
Python, Django, Flask, NumPy, SciPy, JAVA, Spring Framework, Spring MVC, JavaScript, Bootstrap, Express.js, Node.js, RESTful JSON web service, jQuery, HTML, CSS, C++, MySQL, Firebase, Gradle, Apache Spark, Apache, Tomcat, Jenkins, Sublime, Eclipse, IntelliJ, GitHub, SVN, Linux, Trello, Slack, Heroku.

Foreign Languages
Basic skills in Spanish and Chinese