Sameet Sapra

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Education

Expected 2018 **University of Illinois at Urbana Champaign**, *GPA: 4.0/4.0*.

- Bachelor of Science in Computer Science, Minor in Mathematical Statistics
- Coursework: Data Structures, Algorithms and Graph Theory, Computer Architecture, Artificial Intelligence, Databases
- Honors: James Scholar, Dean's List

Programming Languages

High Level	Python, Java, Ruby, SQL, C++	System	MIPS Assembly, Verilog, Bash, Zsh
Web	Rails, React.js, Django, Flux, Angular.js	Math	Mathematica, numpy, LaTeX
Hardware	Arduino, Raspberry Pi, Linux Servers	Tools	Git, Atom, AWS

Experience

Fall 2015 - Present **Full Stack Web Developer**, **Cognitive Computation Group**, Champaign, IL.
Angular.js, PHP ~5,000 lines

- Refactor the research tools and demos on the website in PHP and Angular.js
- Improve the performance and reliability of the content management system for website administrators

Summer 2016 **Software Engineer Intern**, **NextCapital**, Chicago, IL.
Ruby, Rails, Java, AWS, React.js ~20,000 lines

- Directed front end team to migrate to React and Redux and incorporate a component-based architecture
- Interfaced with Lambda services on AWS to enroll new users onto the platform
- Refactored financial institution data import stack in Ruby to securely store confidential user information
- Built internal dashboard with PivotalTracker's API to track progress for major milestones

Fall 2015 - Spring 2016 **Research Assistant**, **Department of Computer Science**, Champaign, IL.
C++, Networking ~1,000 lines

- Documented sample packet fields and values for network protocols
- Implemented network protocols in C++

Summer 2015 **Front End Engineer Intern**, **SimpleRelevance**, Chicago, IL.
Python, Django, React.js, Backbone.js ~250,000 lines

- Overhauled the website dashboard with React.js and Flux architecture
- Constructed adjustable graphs and daily reports to export data as a pdf or csv
- Optimized website for all mobile devices and browsers, improving page load speed by 25%
- Created an admin panel for administrators to dynamically update static content

Extracurriculars and Hackathons

February 2016 - Present **Co-Chair for Information Retrieval in Association for Computing Machinery**.

- Teach students how to retrieve, parse, store, and visualize big data using Python and d3.js
- Manage projects such as analyzing presidential election outcomes with respect to different global issues

February 2016 **UIUC HackIllinois - Open Source Division**.

- Built a backend Java application to assess a user's credibility and store user registration information to help in allocating computing resources for Apache Airavata
- Recognized as a top 3 open source project

January 2016 **Search Engine for Recipes**.

- Developed a web application to recursively crawl recipe websites and query results with Elasticsearch
- Served as a project manager and full stack web developer on the team

July 2014 - August 2014 **2048 AI Solver**.

- Built a 2048 AI solver in Java using a mini-max algorithm with alpha-beta pruning
- Presented to Stanford University faculty and students