SHUO ERIC LI

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OBJECTIVE

Seeking an entry level or new grad **full-time or intern** position in software engineering

EDUCATION

University of Illinois at Urbana-Champaign - Urbana, IL
Master of Science in **Electrical and Computer Engineering**, GPA: 3.45/4.00   05/2015

University of Illinois at Urbana-Champaign - Urbana, IL
Bachelor of Science in **Electrical Engineering, with Honors**, GPA: 3.58/4.00   05/2013

Featured Studies: Data Structures, Algorithms, Database Systems, Web Development, Real-Time Systems

WORK EXPERIENCE

University of Illinois, Graduate Teaching Assistant - Urbana, IL   08/2013 - 05/2015
- Instructed digital circuits, microprocessor and IP core design and testing using SystemVerilog and FPGA
- Organized the laboratory sections with 30+ students, answered questions, and graded reports

University of Illinois, Graduate Researcher, advised by Dr. Schutt-Aine - Urbana, IL   03/2014 - 05/2015
- Developed a new algorithm for a truncation spurs-free structure of direct digital synthesizer and realized noise reduction by 55% using MATLAB, Verilog and FPGA

Nanyang Technological University, Summer Research Intern - Singapore   06/2013 - 08/2013
- Developed a Python web crawler using Scrapy to assist a research project

PROJECT EXPERIENCE

Database-driven Web-based Application - Budget Manager (Team)   01/2015 - 05/2015
- Developed a web application using MEAN stack (MongoDB, Express, AngularJS, Node.js) that allows users to manage their budgets including input spendings, review expenses and monitor transactions
- Created a RESTful API that provides APIs for front-end to realize register/login and add/edit/delete
- Wrote the app in HTML/CSS, JavaScript and styled it with Bootstrap framework

Search Engine for Wikipedia articles using Apache Hadoop   03/2014 - 05/2014
- Wrote a XML crawler in Java to format the very large datasets into individual articles
- Implemented Map and Reduce functions using Hadoop to form the inverted index and Search and Rank functions to return results ranked by the frequency of occurrence of the word searched

Database-driven Web-based Application - Course Scheduler (Team)   08/2013 - 12/2013
- Developed a web application using LAMP stack (Linux, Apache, MySQL, PHP) that allows users to make study plans. Basic features include register/login, add/edit/delete course and lookup class information
- Implemented advanced feature to improve UX design - display the prerequisites in a tree graph
- Wrote the app in HTML/CSS, PHP, SQL and jQuery

SKILLS

Programming	**proficient:** Java, Python, JavaScript, HTML/CSS/PHP/MySQL, Verilog
Frameworks	**entry-level:** Node.js/Express, AngularJS, Bootstrap, jQuery
Technologies	**entry-level:** AJAX, JSON, MVC, REST API
Tools	Git, Eclipse
Systems	OS X, Linux, Windows
Languages	Mandarin Chinese, English