

Chaoran Wang

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Objective Applying for 2017 Summer Software Engineering internship. **Specialty:** Machine learning, neural networks, mobile and browser applications, database systems.

Education History

Master in Computer Science	University of Illinois at Urbana-Champaign (UIUC)	May, 2016 - Dec, 2017
B.S. in Computer Science	University of Illinois at Urbana-Champaign (UIUC)	Aug, 2011 - Aug, 2015

Work Experience

Employer:	Precision Planting at Monsanto	Job Title:	Software Engineer Full-time
Start Date:	07/06/2015	End Date:	02/26/2016
		Location:	Tremont, IL, US
Description:	Developed innovative technology products to increase crop yields for thousands of farmers around the world. Language & technologies: C/C++, CAN/J1939 datalink communications software, TCP or UDP communications protocols, multi-threaded or near real-time systems, vehicular telematics and GPS systems.		
Employer:	Wolfram Research, Inc.	Job Title:	Software Engineer Intern
Start Date:	01/26/2015	End Date:	05/15/2015
		Location:	Champaign, IL, US
Description:	Responsible for working on our purchasing application that merges the Wolfram Alpha and Cloud purchases, as well as working on rewriting of the Wolfram ID login system in Wolfram Web R&D Department.		
Employer:	@Walmart Labs	Job Title:	Senior Project (Team Lead)
Start Date:	09/29/2014	End Date:	05/17/2015
		Location:	Champaign, IL, US
Description:	For one year senior project. Build in Oculus Rift Virtual Reality Technology. Providing 3D virtual access to all of the resources from the customer based Walmart.com and WalmartLabs.com. Language & technologies: C++, Kinect, Leap Motion (Gesture recognition).		
Employer:	Amazon.com	Job Title:	Software Engineer Intern
Start Date:	05/28/2014	End Date:	08/15/2014
		Location:	Seattle, WA, US
Description:	Built an internal website that can display Amazon seller performance metrics and re-assign seller's selling eligibility. Taking part in coding search engine, login group control, table filter, communication by JSON Object to and from backend service layer, seller bulk action process, pushing process notification. Language & technologies: Java, JSP, JSON, AJAX, JavaScript, Spring, Hibernate, SQL, HTML5, CSS, JQuery.		
Employer:	Koncord Software	Job Title:	Software Engineer Intern
Start Date:	07/01/2012	End Date:	08/01/2012
		Location:	Nanjing, Jiangsu, China
Description:	Developed a Management System (Website) for processing government scientific records. Taking part in backend Database Design, Web designing, coding Bulk File Uploading, communication. Language & technologies: Java Struts, Spring, Hibernate, MySQL, HTML, CSS, JQuery.		
Employer:	University of Illinois at Urbana-Champaign (UIUC)	Job Title:	Teaching Assistant for CS242 (Programming Studio)
Start Date:	08/29/2014	End Date:	05/17/2015
		Location:	Urbana, IL, US
Description:	Holding two session slots. Helping and assessing students to build a Chess Game (Java); an airline routing graph (Python); a profile website (PHP, HTML, CSS, JavaScript and SQL); and a final project based on student's ideas and programming language preferences.		

Research Experience

Date:	06/01/2016 - 12/31/2017	Professor:	Prof. Peng, Jian
Description:	Involved in, machine learning, neural network include efficient sampling, variational inference and structural learning algorithms.		
Date:	06/01/2016 - 12/31/2017	Professor:	Prof. Parameswaran, Aditya
Description:	Involved in Zenvisage, a platform for effortlessly visualizing interesting patterns, trends, or insights from large datasets.		
Date:	09/29/2014 - 05/17/2015	Professor:	Prof. Lavalle, Steven M
Description:	Involved in a research group doing 3D Virtual Reality Oculus Rift Development and Oculus Rift related projects. Involved in the project of digitizing items for Spurlock Museum (Champaign, IL) into Virtual Reality. Research on ability of using air mouse to control movement/operations in Virtual Reality.		
Date:	09/29/2014 - 05/17/2015	Professor:	Prof. Allison, James
Description:	Involved in a research group doing Literature Network Analysis of major conference and journal papers at ASME and related sources. Writing scripts to auto crawl citation network and doing location and specialization based data mining analysis on the network.		

Projects & Courseworks

Real Estate Webapp (Jquery + Mysql)	Chat Room Browser App (Java EE + WebSocket)	Messenger App (Java + TCP/UDP Socket)
Flight Simulation (OpenGL/C++)	Real Estate Website http://wonderland.web.engr.illinois.edu/ (JS, PHP, MySQL)	
Food Order Entrepreneur (Swift, PHP, MySQL)	Picture/Image processing (C++)	Maze-Solver (C++)
Dancing-I (WebGL)	3D display of teapot (OpenGL/C++)	Snake Game (Assembly: Mips)
System Process Scheduler @	Chess Game (Java)	Simulation of MapReduce (C)
Google Pagerank (Matlab)	Server- Browser communication (C++)	Web-based Iphone App (Objective C)
Large Dataset Categorizing (Java)	Mapreduce Problem (Hadoop)	Key-Value Storage over distributed servers (Java)

Courses

Neural Networks(Python)	Machine Learning(Python)	Object Oriented Programming (Java)
Data Structure & Algorithms (C++ Java)	Parallel Programming (C++, Java, OpenMP)	System Programming (C)
Theory of Computation (State Machine)	Computer Architecture I&II (Assembly)	Computer Graphics (OpenGL)
Database System (PHP,MySQL,Oracle)	Data Mining (Java, Python)	Numerical Analysis (Matlab,Python)

Software Skills

Platforms: Linux commands, familiar with Mac/Linux/Windows environments	Languages: Java, C, C#, C++, Python, Matlab, Mathematica, Mips, x86
Database: MySQL, Oracle, MongoDB, DynamoDB	Web: JavaScript, PHP, JSP, CSS, AJAX, JQuery, Stripe, Oauth, Bootstrap, AngularJS
Mobile App: Swift, Objective C (Iphone App), Java (Android/ Kindle apps)	Graphics: WebGL, OpenGL, Unity3D, Unreal Engine 4, Kinect, Blender, Oculus Rift API
Distributed: Hadoop, Cassandra, TCP/UDP Sockets	Networking: Photon Networking, Java Websockets, Node.js, REST, Oauth, Stripe API