**Zhuo Chen**

Toronto, Canada

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Available immediately (Canada Permanent Resident)

Educations

Ph.D. in Computer Science12/2017

The University of Texas at Dallas, Texas, USA

M.S. in Computer Science5/2017

The University of Texas at Dallas, Texas, USA

B.E. in Software Engineering7/2010

Huazhong University of Science and Technology, Wuhan, China

Skills

Languages: Java, Python, C++, Scala, JavaScript, UNIX shell scripting, Prolog

Tools: IntelliJ IDEA, Visual Studio, Eclipse, MS VSS, SVN, PostgreSQL, AWS, Git

Framework: Play Framework, Apache Spark, J2EE

Relevant Courses

Database DesignData StructureAlgorithm Design and AnalysisMachine Learning Advance Operating SystemAdvanced Computer NetworksAdvanced Programming Language Discrete Math

Related Experience

**Research Associate,** the University of Texas at Dallas, Texas, USA 2/2018-7/2020

● Built the heart failure treatment recommendation system with Scala,Cats, Play Framework, JavaScriptand PostgreSQL.

● Deployed the system to Amazon Web Service.

**Research Assistant,** the University of Texas at Dallas, Texas, USA 9/2015-12/2017

● UsedScala and answer set programming to simulate a doctor’s mind to manage heart failure.

**Software Engineer,** Interoperate.Biz, Inc., Texas, USA 5/2016-8/2016

● Maintained an MFC-based desktop application for digitalizing scanned braille sheets. Helped my manager redefine core requirements and implemented themin C++. Presented the demo of the application to our client, Library of Congress.

**Software Engineer**, Bank of Communications, Chongqing, China8/2010-4/2012

●Built a server by Java, Sybase database and webservice,which handled the citizens’ social security information issued by the Labor and Social Security Bureau that would be used by the bank and several card printing businesses to open accounts and make cards. To this day, over 150,000 bank cards have been issued due to the contribution of my work.

● Developed a mobile application using JSP and Tomcatwhich let users check the balance in their accounts at the Housing Provident Fund Program.

**Programmer**, H3CCommunication Technology, Wuhan, China10/2007-2/2008

● Participated in the cooperation project called Netstream. About 4,000 lines of C code were written forthe network data capturemodule used in routers and switches.

● Went through all stages of software development life cycle. Completed the unit test using Python.

Personal Development

● I have been an activepractitioner of Getting Things Done (GTD) methodology since 2012. GTD is a set of best practicesin attention management that are essential for knowledge workers today.

Volunteer Experience

**Presenter,** Center for Computer Science Education & Outreach, University of Texas at Dallas

●Gave an outreach talk titled "Automated Reasoning and Its Application to Medicine" to high school students. This talk was made layman-friendly and technical details were omitted so that the high students were intrigued and inspired by the possibilities AI technology has to offer.

**Mentor**, UT Dallas Artificial Intelligence Society

●Served as a mentor in a hackathon event in which the participants were building an intelligent reasoning application in one day.As a helper, I assisted the participants in overcoming technical difficulties and made their lives easier when they were realizing their awesome ideas.

Honors & Awards

● NSF Innovation Corps Award, 2019.

●University Merit Undergraduate 2006-2007. Huazhong University of Science and Technology.

●First Prize in National Olympiad in Informatics in Provinces (NOIP 2004). China Computer Federation.

●First Prize in National Olympiad in Informatics in Provinces (NOIP 2005). China Computer Federation.

Publications

●ARIAS, J., CHEN, Z., CARRO, M., GUPTA, G. 2019.Modeling and Reasoning in Event Calculus Using Goal-Directed Constraint Answer Set Programming. Informal Proceeding of 29th International Symposium on Logic-based Program Synthesis and Transformation (LOPSTR).

●CHEN, Z., CHERUKURI, A., DAS, S., AMIN, A., TAMIL, L. AND GUPTA, G. Toward a Clinical Point of Care Tool for Managing Heart Failure. Proc. of American Medical Informatics Association (AMIA), March 2019.

●ARIAS, J., CARRO, M., CHEN, Z., GUPTA, G. 2019. Constraint Answer Set Programming without Grounding and its Applications. 3rd International Workshop on the Resurgence of Datalog in Academia and Industry.

●CHEN, Z., SALAZAR, E., MARPLE, K., GUPTA, G., TAMIL, L., CHEERAN, D., DAS, S., AND AMIN, A. An AI-Based Heart Failure Treatment Adviser System. IEEE Journal of Translational Engineering in Health and Medicine, vol. 6, pp. 1-10, Oct. 2018.

●CHEN, Z., SALAZAR, E., MARPLE, K., GUPTA, G., TAMIL, L., CHEERAN, D., DAS, S., ANDAMIN, A. 2017. Improving adherence to heart failure management guidelines via abductive reasoning.Theory and Practice of Logic Programming (TPLP) 17, 5-6, 764779.

●CHEN, Z., MARPLE, K., SALAZAR, E., GUPTA, G., AND TAMIL, L. 2016. A physician advisorysystem for chronic heart failure management based on knowledge patterns. Theory and Practice of LogicProgramming (TPLP) 16, 5-6, 604618.

●GUPTA, G., SALAZAR, E., MARPLE, K., CHEN, Z., AND SHAKERIN, F. 2017. A case for query-drivenpredicate answer set programming. In ARCADE 2017. 1st International Workshop on Automated Reasoning:Challenges, Applications, Directions, Exemplary Achievements, G. Reger and D. Traytel, Eds.EPiC Series in Computing, vol. 51. EasyChair, 64–68.