TARA L. PARKER

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EDUCATION

Texas Tech University, Whitacre College of Engineering

August 2011 - May 2016

Computer Science, B.S. (In Progress)

Minor: Mathematics

Relevant Coursework:

Discrete Computational Structures

Computer Org/Assembly Language

Introduction to Artificial Intelligence

Concepts of Programming Languages

Software Engineering

Theory of Automata

Computer Architecture

Data Structures

Modern Digital System Design

Data Structures
Linear Algebra

WORK EXPERIENCE

Student Assistant

Student Assistant

Texas Tech University, IT Help Central

November 2015 - May 2016

Lubbock, TX

- · Assisted the unit supervisor with data entry, management, and other various tasks
- · Handled all employee files and data including processing hires, promotions, and terminations
- · Created and maintained work schedules for all student employees

Texas Tech University, Dept. of Computer Science

August 2014 - May 2015

Lubbock, TX

· Assisted professors by mentoring students and completing administrative duties

· Facilitated with both graduate and undergraduate courses including Big Data Infrastructure and Data Management, Wireless Networks and Mobile Computing, and Software Engineering

ACADEMIC AND RESEARCH EXPERIENCE

Texas Tech University, Dept. of Computer Science

August 2013 - May 2015

Undergraduate Research, Independent Study

Lubbock, TX

- · Researched and implemented an automated tool to build keyword dictionaries for any given topic for use in data mining and analytics
- · Used machine learning, data analytics, data mining, and numerical statistics techniques for development and evaluation

Oak Ridge National Laboratory (via SULI)

Summer 2014

Research Intern, Science Undergraduate Laboratory Internships

Oak Ridge, TN

- · Worked on verification, validation, and uncertainty evaluation for data clustering algorithms and tools
- · Implemented and assessed k-means and Dirichlet process-means clustering algorithms
- · Investigated k-means clustering as a method of fraud detection on 8 million+ records from the Bitcoin Transaction Network dataset

Oak Ridge National Laboratory (via RAMS)

Research Intern, Research Alliance in Mathematics and Science

Summer 2013
Oak Ridge, TN

- · Researched and developed tools for real-time biosurveillance using social media
- · Implemented noise-reduction algorithms and clustering techniques for high volume data streams
- · Demonstrated efficacy of our methods with data visualization

Accenture (via Modis)

Summer 2012

Research and Development Intern, Clinical Quality Workbench

Austin, TX

- · Worked on an international team to develop an advanced clinical care analytics platform
- · Collaborated with clinical experts to ensure accuracy of clinical terminology
- · Led "From Labs to Reality" meetings
- · Developed and managed the medical terminology-driven database interfaces

TECHNICAL SKILLS AND ABILITIES

Programming Paradigms	Imperative, Functional.	Declarative, Ob	iect-Oriented.	Procedural, Logic

Languages C/C++, Python, Java, Node.js, ASP, Cypher Query Language,

LATEX, Markdown, Julia, R, Ruby, Common Lisp, Racket

Web Programming HTML, PHP, JavaScript, CSS

IDE Eclipse, Visual Studio, IntelliJ IDEA

Databases Relational, NoSQL, Graph, Document-Oriented, Data Modeling,

SQL, MySQL, Neo4j, MongoDB

Operating Systems Linux, Mac OS, Windows

Data Science Data Mining, Data Analytics, Big Data, Machine Learning

Miscellaneous First-Order Logic, Git, Vim, Microsoft Office,

Ability to learn new languages and tools quickly

PROFESSIONAL ORGANIZATIONS

Upsilon Pi Epsilon	2013 - Present
International Honor Society for the Computing and Information Disciplines	
Sigma Alpha Lambda	2013 - Present
National Leadership and Honors Organization	
Association for Computing Machinery	2011 - 2013
International Learned Society for Computing	

ACADEMIC HONORS AND SCHOLARSHIPS

Conoco Phillips Center for Engineering Enrichment and Diversity Scholarship	2014 - 2015
David and Karen Pace Computer Science Endowed Scholarship	2013 - 2014

PEER-REVIEWED PUBLICATIONS

A. Ramanathan, L.L. Pullum, C.A. Steed, **T.L. Parker**, S.P. Quinn, C.S. Chennubhotla. (2013) Oak Ridge Bio-surveillance Toolkit (ORBiT): Integrating Big-Data Analytics with Visual Analysis for Public Health Dynamics Workshop on Public Health's Wicked Problems: Can InfoVis Save Lives?, as part of IEEE Visual Analytics Science and Technology (VAST)

A. Ramanathan, L.L. Pullum, C.A. Steed, **T.L. Parker**, S.P. Quinn, C.S. Chennubhotla. (2013) Integrating Heterogeneous Healthcare Datasets and Visual Analytics for Disease Bio-surveillance and Dynamics. 3rd IEEE Workshop on Interactive Visual Text Analytics, as part of IEEE Visualization Conference (Vis)