6902 Cameron Crest Circle, Apt 222 Raleigh, NC, 27613, USA 770-843-1586 ssanders@cs.unc.edu

SEAN SANDERS

EDUCATION

University of North Carolina at Chapel Hill

PhD, Computer Science, May 2016 (expected)

Concentration: Network Traffic Analysis, Applied Statistics/Machine Learning, and Simulation Modeling

University of North Carolina at Chapel Hill

MS, Computer Science, Dec 2013

Concentration: Bioinformatics, Machine Learning, and Optimization

Georgia Institute of Technology

BS, Computer Engineering, May 2011

Studied Abroad at Georgia Tech's Campus in Metz, France (Spring 2009)

INDUSTRY & RESEARCH EXPERIENCE

| University of North Carolina, | Chapel Hill. | NC |
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Graduate Research Assistant, 08/11-Present

SAS Institute, Cary, NC

Data Management Division, Software Tester and Performance Analyst, 05/13-Present

Intel Corporation, Folsom, CA

NAND Products Group, Hardware/Software Engineer and Data Analyst, 05/10-08/10, 05/12-08/12

AT&T Labs-Research, Florham Park, NJ

Traffic Analysis Research Group, Software Developer and Data Analyst, 06/11-05/12

Northrop Grumman Corporation, Electronic Systems, Baltimore, MD

Engineering Tools and Utilization Group, Software Developer, 06/09- 08/09

Georgia Institute of Technology, Atlanta, GA

Undergraduate Research Assistant, 01/08-05/11

TEACHING EXPERIENCE

| Unive | rcity | of Nort | th Ca | rolina | Char | el Hill. | NC |
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| Unive | rsitv | OI NOU | un Ca | tronna. | . Unat | ен пин. | WU |

| Undergraduate Course Instructor (COMP110- Intro to programming), | 06/14-07/14 |
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| Graduate Course Guest Lecturer (COMP790-124- Machine Learning in Compbio), | 10/12 |

Georgia Institute of Technology, Atlanta, GA

| Georgia institute of Technology, Attanta, OA | |
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| Undergraduate Teaching Assistant (ECE2031- Digital Design Laboratory), | 01/10-05/10 |
| OMED Educational Services, Head Tutor (tutored programming, calculus, and statistics), | 08/08-12/10 |

ACTIVITIES AND SERVICE

University of North Carolina, Chapel Hill, NC

| Information Technology Administrator, Graduate and Professional Student Federation, | 05/13-05/14 |
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| Information Technology Public Policy Chair, Graduate and Professional Student Federation, | 05/12-05/14 |
| Senate for Department of Computer Science, Graduate and Professional Student Federation, | 08/11-05/12 |

SKILLS

- Programming in MATLAB, C, C++, Perl, R, SQL, Java, SAS, and Python
- Experience using hardware analysis tools including Logic Analyzer, Oscilloscope, VHDL, and SPICE
- Basic knowledge of web technologies including HTML, Javascript, Php, and CSS
- Experience using RDBMS and data access technologies including Oracle, DB2, ODBC, and JDBC
- Modest systems administration experience: Install, configure, manage, and backup databases, and OS configuration
- Some experience administering web applications including Wordpress site, Confluence wiki, and listsery (applications administered serve over 10,000 people) provided help to users, performed upgrades and/or migrations, managed user accounts, monitored application usage and tuned application(s) when issues occur
- Professional experience in a software engineering role with responsibilities including development, testing, performance analysis and optimization, and failure analysis
- Experience using high performance computing infrastructure including Multi-core systems, Distributed systems (i.e., compute clusters that may or may not use schedulers), and MapReduce Framework (i.e., HDFS)
- Strong knowledge and academic/research/professional experience using applied statistics (regression analysis, exploratory analysis, basic statistical inference ANOVA, Paired t-tests, etc), time series analysis, machine learning and data mining techniques, convex optimization methods, and simulation models/tools
- Familiar with Windows, Unix, and Linux environments

HONORS & AWARDS

- Awarded Travel Grant to Attend 7th Traffic Measurement and Analysis (TMA) Workshop 2015, 04/15
- IEEE International Conference on Network Protocols (ICNP) PhD Forum Best Paper Award, 10/14
- National Science Foundation Graduate Research Fellowship, 04/11
- AT&T Labs Fellowship, 03/11
- President's Undergraduate Research Award, 01/09, 03/10,03/11
- Outstanding Service Award as a student in the Opportunity Research Scholars Program, 04/11
- Georgia Tech School of Electrical and Computer Engineering Undergraduate Research Award, 04/10
- Georgia Tech College of Engineering Future Hall of Fame Student, 02/10
- Awarded Best Presentation at Georgia Tech Electrical and Computer Engineering Research Fair, 04/08
- Omnicron Delta Kappa Freshman Leadership Award, 04/08
- Governor's Scholar (Valedictorian of Columbia High School), 05/07

PUBLICATIONS & PRESENTATIONS

- S. Sanders, G. Sanka, J. Aikat, and J. Kaur, "The Influence of Client Platform on Web Page Content: Measurements, Analysis, and Implications" (to appear) in Web Information Systems Engineering–WISE, Miami, FL, Nov 2015
- S. Sanders and J. Kaur, "A Graph Theoretical Analysis of the Web Using DNS Traffic Traces" (to appear) in the Proceedings of IEEE MASCOTS, Atlanta, GA, Oct 2015
- S. Sanders and J. Kaur, "Can Web Pages Be Classified Using Anonymized TCP/IP Headers?" in the Proceedings of IEEE INFOCOM, Hong Kong, April 2015
- S. Sanders and J. Kaur, "Towards a Framework for Web Page Classification Using Anonymized TCP/IP Headers" 7th Traffic Measurement and Analysis (TMA) Workshop (poster), Barcelona, Spain, April 2015
- S. Sanders and J. Kaur, "On the Variation in Web Page Download Traffic Across Different Client Types", in Proceedings of the Ph.D. Forum, IEEE International Conference on Network Protocols (ICNP'14), Raleigh, NC, Oct 2014.

Best PhD Forum Paper.

• E. Wornyo, A. Ghosh, and S. Sanders, "Testing Polymer Suitability for Computer Memory Applications," Georgia Tech ECE Poster Fair, 2008

Best Poster Presentation.