Aniket Chakrabarti

CONTACT INFORMATION
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PROFESSIONAL EXPERIENCE

Applied Scientist 2, Microsoft AI & Research, August, 2017 - current

- Working on Question Answering systems based on Deep Learning

Summer Research Intern, Microsoft Research, May to August, 2016
Mentors: Dr. Kathryn McKinley, Dr. Sameh Elnikety, Dr. Yuxiong He

- Worked on distributed clock synchronization protocol for windows
- Used C++, C# and Python

Summer Research Intern, NEC Labs, May to August, 2015
Mentors: Dr. Srimat Chakradhar, Dr. Ming Feng, Mr. Kunal Rao

- Worked on efficient face tracking using face detectors and optical flow
- Used C++, Python and the OpenCV framework

Research Associate Intern, HP Labs, May to August, 2014
Mentors: Dr. Manish Marwah, Dr. Martin Arlitt

- Worked on anomaly detection on sensor data using belief propagation based approach on Markov Random Field
- Used C++, Python and the GraphLab framework
- Work resulted in a publication

Graduate Research Associate, The Ohio State University, September, 2011 to August, 2017
Mentors: Dr. Srinivasan Parthasarathy, Dr. Christopher Stewart

- Worked on machine learning techniques including kernel learning, probabilistic graphical models, approximate similarity search.
- Worked on scaling machine learning algorithms using parallel and distributed frameworks.
- Used C++, Python, MPI, OpenMp, Redis, Cassandra, Zookeeper and Hadoop systems

Software Development Engineer, Amazon.com, 2010 to 2011

- Developed web services for financial applications, including Java back ends and front ends in Perl Mason
- Deployed and configured the services across many host machines.

Senior Engineer, Interra Systems, 2007 to 2010

- Worked on parsers for the EDA formats such as Common and Unified Power Formats
- Used C, C++, Lex, Yacc, and TCL

EDUCATION

PhD, Computer Science and Engineering
The Ohio State University, Columbus, USA 2011 - 2017
Advisors: Dr. Srinivasan Parthasarathy, Dr. Christopher Stewart

MS, Computer Science and Engineering
The Ohio State University, Columbus, USA 2011 - 2015
GPA: 3.975/4.0

BE, Information Technology
Jadavpur University, Kolkata, India 2003 - 2007
GPA: 9.15/10.0

SKILLS

Languages: C,C++,Python, Matlab
Frameworks: Hadoop, Redis, Cassandra, Zookeeper, GraphLab, MPI, OpenMP, TensorFlow

PUBLICATIONS

1. *A Pareto Framework for Data Analytics on Heterogeneous Systems: Implications for Green Energy Usage and Performance.* Aniket Chakrabarti, Srinivasan Parthasarathy, Christopher Stewart. ICPP 2017.
2. *Hierarchical Change Point Detection on Dynamic Networks.* Yu Wang, Aniket Chakrabarti, David Sivakoff, Srinivasan Parthasarathy. WebSci 2017.
3. *Fast Change Point Detection on Dynamic Social Networks.* Yu Wang, Aniket Chakrabarti, David Sivakoff, Srinivasan Parthasarathy. IJCAI 2017.
4. *D-STHARk: Evaluating Dynamic Scheduling of Tasks in Hybrid Simulated Architectures.* Svyo Toledo, Danilo Melo, Guilherme Andrade, Fernando Mouro, Aniket Chakrabarti, Renato Ferreira, Srinivasan Parthasarathy, Leonardo Rocha. ICCS 2016.
5. *Robust Anomaly Detection for Large-scale Sensor Data.* Aniket Chakrabarti, Manish Marwah, Martin Arlitt. ACM BuildSys 2016.
6. *Topological Graph Sketching for Incremental and Scalable Analytics.* Bortik Bandyopadhyay, David Fuhry, Aniket Chakrabarti and Srinivasan Parthasarathy. CIKM 2016.
7. *Improving Locality Sensitive Hashing Based Similarity Search and Estimation for Kernels.* Aniket Chakrabarti, Bortik Bandyopadhyay and Srinivasan Parthasarathy. ECML/PKDD 2016.
8. *Heterogeneity- and Green- Aware Partitioning for Data Analytics.* Aniket Chakrabarti, Srinivasan Parthasarathy and Christopher Stewart. Infocom Workshops 2016.
9. *A Bayesian Perspective on Locality Sensitive Hashing with Extensions for Kernel Methods.* Aniket Chakrabarti, Venu Satuluri, Atreya Srivathsan and Srinivasan Parthasarathy. TKDD 2015.
10. *Sequential Hypothesis Tests for Adaptive Locality Sensitive Hashing.* Aniket Chakrabarti and Srinivasan Parthasarathy. WWW 2015.
11. *Zoolander: Efficiently meeting very strict, low-latency slos.* Christopher Stewart, Aniket Chakrabarti and Rean Griffith. ICAC 2013.
12. *Zoolander: Efficient Latency Management in NoSQL Stores.* Aniket Chakrabarti, Christopher Stewart, Daiyi Yang and Rean Griffith. Poster, Middleware 2012.

TEACHING EXPERIENCE

Graduate Teaching Associate, The Ohio State University

- Instructor for undergraduate courses on C and C++ programming
- Grader for undergraduate course on introduction to computing technology

Guest Faculty, Jadavpur University

- Lab instructor for windows programming lab on GUI development using Gimp Tool Kit
- Lab instructor for system programming lab

PROFESSIONAL SERVICES

Journal Editorial Board: DMKD
Program Committee Member: WWW 2017, CIKM 2017, 2018, KDD 2018, SISAP 2018, DSAA 2018, SmartGrid 2018
Reviewer: ECML/PKDD, TKDE, TKDD, Pattern Recognition Letters, DAPD

HONORS

- B. Chandrasekaran & Sandra Mamrak Graduate Research Award,
  Computer Science & Engineering,
  The Ohio State University, 2017
- SDM 16 Student Travel Grant
- SDM 14 Student Travel Grant
- SOSP 13 Student Travel Grant
- Best student project award for "Digital Image Watermarking Based on the Vector Quantization Technique", Jadavpur University, 2007