## Gaurav Verma

in linkedin.com/in/grverma/ github.com/xintin EDUCATION

 $\square$ +1-631-312-1712

• Stony Brook University

Stony Brook, NY, United States

gaurav.verma@stonybrook.edu

Master of Science in Computer Science; GPA 4.0/4.0

Aug. 2019 - May 2021

- o Subjects: Compiler Design (Dr. Chapman Barbara), Algorithms, System Security, Data Science, Network Security, Introduction to Science Policy
- National Institute of Technology, Surathkal

Karnataka, India

Bachelor of Technology in Computer Engineering

July 2012 - May 2016

Programming Skills

- Languages Python, C, C++, bash, ksh, JavaScript, Java, Oracle PL/SQL, SQL, R, HTML, CSS
- Technology AWS, Spark, Hadoop, RDBMS, Netezza, NoSQL, DynamoDB, Flask, Docker, Hive

Ongoing Projects

• Exascale Programming Models Laboratory

Stony Brook University, NY

Institute of Advanced Computational Science, Graduate Research Assistant

Oct 2019 - Present

o Compilers for Deep Learning and Big Data Applications: Responsible for researching on XLA from Google for memory optimizations and performance

Experience

• Lawrence Livermore National Laboratory

California, United States

Summer Research Intern

May 2020 - Aug 2020 (Tentative)

o Project based on High Performance Computing, Parallel Computing, and OpenMP: TBD

• Amazon Web Services (AWS)

Stony Brook University, United States

AWS Educate Student Ambassador

May 2020 - Present

• Fidelity Investments

Lead Software Engineer

Bangalore, India March 2019 - July 2019

• Snowflake Based Reconciliation Framework (Data Warehousing): Instituted a reconciliation framework on Snowflake and Oracle DB to validate 350GB+ data between on premise Oracle DB and Snowflake for over 20 million 401K customers in USA contributing to total assets of worth \$6.5 Trillion

July 2016 - March 2019

- Big Data: Developed an asynchronous pipeline for processing over 35TB of Customer's Data spanning whole USA (8 regions) on a daily basis using Spark, AWS and Hadoop. Streamlined generic data flow from Unix Server, HDFS, Oracle DB and Netezza DB to Amazon AWS using Apache NiFi
- Data Analytics: Initiated and systematized a new business capability in Data Analytics. Developed an Opinion mining Framework to find insights in Call Logs using Bi-directional LSTM and AWS Comprehend
- Samsung Research Institute

Bangalore, India

Summer Intern

May 2015 - July 2015

• Named Entity Recognition (NLP): Analyzed the NER mechanism and achieved an accuracy of 98.1%

Publications

- Watermarking Algorithm-to avert misinterpretation of ATM card: Procedia Computer Science, Volume 89, 2016, Gauray Verma, Sanket M Gawande, Mayank Bhura, Shashidhar Koolagudi
- Analysis of Green design for Cloud Resource Procurement: 2015. Procedia Computer Science, Volume 54, Doshi Chintan Ketankumar, Gaurav Verma and K. Chandrasekaran
- Cluster Based Routing in Named Data Networking: 2015. International Conference on Information Technology: New Generations, Nevada, Las Vegas, US. IEEE. Gaurav Verma, Arun Nandewal, K. Chandrasekaran

## Past Research and Projects

- Temporary Email Analysis, Ethos Laboratory: Designed and developed a distributed architecture to investigate defense loopholes in 1 million+ emails using ELK Stack amongst social media, pharmaceutical, and government domains; Guide: Dr. Amir Rahmati
- 1-Factorization in Regular Graphs: Proved semi-perfect 1-factorization conjecture for complete Bipartite graphs using Konig's Theorem, Vizing's theorem and techniques like box-product of a graph; Guide: Dr. Manu Basavaraju
- Automatic Segmentation of Closed-Contour Features in Ophthalmic Images: Researched and implemented a framework to segment arbitrarily shaped, closed-contour features on spectral domain optical coherence tomography images using graph theory and dynamic programming; Guide: Dr. Jeny Rajan

## Achievements