Shreyas Bhatia

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Education

- **State University of New York at Stony Brook** — Stony Brook, NY
  Master of Science in Computer Science — *Aug. 2017 – Dec. 2018*
- **National Institute of Technology - Bhopal** — Bhopal, India
  Bachelor of Technology in Computer Science (8.16/10.0) — *Aug. 2011 – July. 2015*

Experience

- **Adobe** — Bangalore, India
  Member of Technical Staff 2 — *Oct 2015 - Jun 2017*
  - Worked in the Installer, Build and Release Team and was mainly responsible for the development of Installers and Release Engineering Activities and end-to-end automation for different Adobe Products
  - Created scripts in Python to facilitate end-to-end automation of tasks involved in release activities
  - Developed custom actions for installers in C++ and Java to handle new requirements for products
  - Integrated licensing subsystem using C++
  - Developed various features in Build Scripts like Failure Recovery, Implementation of a Multi-Threaded Build System for Creative Cloud Disk Set

Publications

- **Importance of GPGPUs in efficiency improvement of real world applications**: The paper discusses about GPGPUs, their evolution, and their contribution to many real world applications in which a GPU through GPGPU has improved their efficiency
- **Improved Parallel PageRank Algorithm for Spam Filtering**: The paper proposes an improved PageRank algorithm that non-uniformly distributes the PageRank values among all the outgoing links. The proposed algorithm attempts to mitigate spam and provide better results by using a non-uniform PageRank distribution. The proposed work has been implemented on NVIDIA Quadro 2000 GPU architecture using CUDA programming language.

Projects

- **A new approach to HITS Algorithm**: Hyperlink-Induced Topic Search is a link analysis algorithm that rates Web pages. The project aims to apply a non-uniform distribution in calculating the hub and authority score to reduce spam. The hub and authority score of each page is calculated in parallel using CUDA. The Twitter Social Network uses a HITS style algorithm to suggest user accounts to follow.
- **Restaurant Label Classification**: The goal is to build a machine learning model that automatically tags restaurants with multiple labels using a dataset of user submitted photos. It involves using the bottle-neck features of a Convolutional Neural Network and using a OneVsRestClassifier with SVM to generate the tags.
- **Parallel Implementation of Histogram Equalization Using OpenCL**: Histogram equalization is a method in image processing of contrast adjustment using the image's histogram. Histogram equalization increases contrast by effectively spreading out the most frequent intensity values.
- **A Plugboard Proxy for adding an extra layer of protection to publicly accessible network services**: The plugboard proxy adds an extra layer of encryption to connections towards TCP services. Instead of connecting directly to a service, clients connect to the proxy(running on the same server) which then relays the traffic to the actual service. Before, relaying the traffic, the proxy will decrypt the traffic using static symmetric key.

Programming Skills

- **Technical Knowledge**: Java, C, C++, Python, Shell Scripting, SQL
- **Version Management**: Perforce, Git
- **Tools and Technologies**: OpenCV, CUDA, Jenkins, Jira, Apache Ant