

EDUCATION

Master's in Computer Science	Stony Brook University, New York	Aug 2018 - Dec 2019 (Expected)
GPA: 3.75 / 4.0 Coursework: Distributed Systems, Operating Systems, Data Science, Algorithms, Computer Vision		
Bachelor's in Computer Science	Delhi Technological University, India	Aug 2010 - May 2014
Marks: 74.75% Coursework: Databases, Artificial Intelligence, Compilers, Networking, Data Mining		
Amongst top 0.5% of the students who appeared for All India Engineering Entrance Exam (AIEEE) during year 2010		

TECHNICAL SKILLS**Programming Languages:** C++, C, Java, Python**Web Technologies and Operating Systems:** HTML, CSS, JavaScript, XML, Linux, Mac**Tools:** Git, GitLab, Perforce, PyTorch, TensorFlow, Jupyter, Scikit-Learn, OpenCV, Jenkins, JIRA, XCode**INDUSTRIAL EXPERIENCE**

Software Development Intern	Adobe, New York	Jun 2019 – Present
<i>Adobe Photoshop Engineering Team</i>		
<ul style="list-style-type: none"> Working on Composite Core layer of Photoshop to find performance bottlenecks. <i>C++</i> 		
Member of Technical Staff-2	Adobe, India	Oct 2015 – Aug 2018
<i>Adobe FrameMaker Engineering Team</i>		
<ul style="list-style-type: none"> Executed the product from 32-bit to 64-bit architecture and devised inter-process communication via FIFO pipes to enable synchronous communication between 64-bit exe and 32-bit DLLs. <i>C, C++</i> Built the SDK client which generated Document Health Report to find unresolved links in document. <i>C++</i> Designed feature of Most Recently Used files and Favorites files to show on welcome screen. <i>C++, CSS, HTML, JS</i> Developed a mechanism to render the welcome screen in a new tab to provide flexibility of docking/undocking for a user and incorporated the user's request to make this feature work on high-resolution screens as well. <i>C++</i> Remodeled the code of Referencing dialogs (like cross-referencing) by using MVC architecture. <i>C, C++</i> Integrated DUDEN dictionary to support modern spell checking and hyphenation for German language. <i>C++</i> 		
Software Engineer	SanDisk, India	Jun 2014 - Oct 2015
<i>Media Management Layer Team</i>		
<ul style="list-style-type: none"> Implemented algorithms to efficiently store and retrieve the data from memory. <i>C</i> Formulated and created a new framework for compaction to increase the memory utilization by 8%. <i>C</i> 		

ACADEMIC PROJECTS

- Encryption-Decryption System Call:** Developed a new system call to efficiently perform copy, encrypt and decrypt functionalities on an input file and used AES cypher algorithm for encryption and decryption. *C, Linux*
- Backup Stackable File System:** Implemented a Stackable(layered) File System to create, view, restore and delete Backup versions of files and supported functionalities using extended attributes in the inode. *C, Linux*
- View-Stamped Replication Algorithm:** Designed operations like normal, view-change and recovery of View-Stamped Replication to ensure reliability and availability and verified safety and liveness properties. *DistAlgo (Python)*
- Kernel Debugging using Hacking options:** Incorporated modules like Spinlock, Slab Debugging, Deadlock Detection, Detect Workqueue Stall, Detect Stack Overflow, Soft Lockup to catch different bugs in the Linux kernel. *C, Linux*
- Executive Compensation Data Extraction:** Worked with Broadridge Financial Services to classify financial documents based on various data points. *Python, Random-Forest Regressor, Stanford NER tagger, Beautiful Soup*
- Spam Filter Detection:** Built using Naïve Bayes model for Spam/Ham classification and used Laplace Smoothing to avoid overfitting which yielded performance metrics of precision 95% and recall 87%. *Python*

ACHIEVEMENTS

- Adobe Bravo Spot Award:** Earned "Bravo Spot Award" for fixing critical memory leak issue faced by users. **Jun 2017**
- SanDisk Gold Award:** Awarded "Execute and Exceed Gold Award" for delivering a critical feature. **Jan 2015**