

ANMOLDEEP SINGH SANDHU

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EDUCATION

California , CA	California State University, Sacramento	Fall 2017 - Fall 2019
<ul style="list-style-type: none">• MS in Computer science - 3.27 <p>Coursework - GPU programming, Advanced Operating System, Computer Architecture, Algo design and analysis, Database System Design.</p>		
Punjab, india	Punjab technical university	Fall 2012 - Fall 2016
<ul style="list-style-type: none">• Bachelor in computer science - 3.2		

INDUSTRY EXPERIENCE

Software Engineer Intern	HPE Aruba Networks(Roseville, CA)	May 2019 - Present
<ul style="list-style-type: none">• Worked on Data center switches QOS scheduling team.• Designed automated tests for Data center network switches using IXIA.• QOS and LAG network feature performance and signal coverage testing.• Testing Aruba WIFI Access-point for TCP throughput, WIFI density and battery drainage.• Developed feature to monitor memory stats for packet buffers (ingress egress VOQ's).• Developed Python scripts for traffic generation and feature testing using scapy.• Improved old tests run time upto 50% by removing redundancy.		
Engineer Intern	Xenonstack (Chandigarh, india)	Spring 2016-Fall 2016
<ul style="list-style-type: none">• Changed Nltk framework to handle large files in memory.• Classification of documents using Machine learning algorithms.• Handling bottleneck modules in C/C++.		

PROJECTS

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- **Insurance fraud detection** (python)
Detecting and flagging potential fraud by **modelling data in a graph**. Using depth first search and flagging the nodes under certain conditions.
 - **Linux system call through drive module** (C)
Replace the **system call table** with our own function pointer that logs the user id of all user when opening a file.
 - **Linux driver for keyboard reading through Interrupts.**(C)
A character device which logs all keys pressed into a proc file. **Workqueues** were used To defer the work into Bottom half minimizing work done in interrupt service routine.
 - **A linux task manager with network and process log options**(python)
A python based gui and linux task manager to view cpu performance and various other performance metrics. Logging stats using shared memory.
 - **2D image blurring using cuda GPU** (C++)
Using parallel computation of pixels to blur image using adjacent pixels average values and shared memory of cuda.

Programming languages - C, Python, C++ , x86 assembly basics, GPU CUDA programming.

Technologies - Linux, Computer Networking, SQLite.