Aman Ojha

amanojha33@gmail.com | 969-515-8100 | ⬡ GitHub · in LinkedIn · Ⓢ Skype

EDUCATION

IIIT LUCKNOW
M.Tech. in Computer Science
Aug 2021 | 8.24 CGPI

SRMCEM
B. Tech. in Information Technology
July 2016 | 72.96 %

ST. MARY'S CONVENT INTER COLLEGE
Lucknow
May 2012 | Inter College

COURSEWORK

GRADUATE
Advanced Algorithms
Advanced Kernel Development
Distributed Systems
Deep Learning
Linux Kernel Development
Scripting and Environment
Machine Learning
Mathematics for Machine Learning

SKILLS

PROGRAMMING
C • Shell • Python • LaTeX
C++ • CSS • HTML • Assembly

Familiar:
Java • Objective-C • Swift • MySQL

ENVIRONMENT
Virtualisation • ESXi • OS Internals
Git • Object Oriented Programming •
Unix
Sphynx • Panda • Numpy • Scikit-Learn

AWARDS

• 1st/50-Star Performer award in TCSL Digital labs
• Gold medal in final year project.
• 1st/30 - Won consecutively Best Male Compere award in college.
• 2nd/300 - Won scholarship for 3rd year in college.

EXPERIENCE

INTEL INDIA | Software Engineer
Aug 2021 – Present | Bangalore, India
- Optimisation in NUMA scheduler of vmkernel of ESXi hypervisor during placement of VMs.
- Optimisations in core scheduler of vmkernel for PCI devices aware migration across NUMA.
- Developed plugin framework and driver control library for driver provisioning with SIOV/SRIOV features.
- Developed interface code for daemons to access resources of drivers and configure it.

INTEL INDIA | Software Engineer Intern
Aug 2020 – May 2021 | Bangalore, India
- Developed and deployed PVRDMA feature in C with integration of DSA driver in ESXi hypervisor. A high speed rdma operation(read and write) between distributed servers with multiple virtual machines. Developed using IB Verbs from Mellanox.
- Debugged and solved issues in drivers of various server products of VMWare.
- Designed and developed test framework in python for VMs. Hands on various platforms (x86) with tools to measure performance.

TCSL DIGITAL LABS | System Engineer
Sept 2016 – March 2018 | Mumbai, India
- Designed a health app for approx. 10 thousand iOS users using core motion framework.
- Developed and integrated API calling features using AFNetworking with singleton class design and multithreading in a legacy application.
- Got trained and worked as a visiting faculty and scrum master for 200 new associates to develop softwares in an agile environment.

PROJECTS

WCAR Lab | Researcher
Nov 2020 – July 2021 | IIIT Lucknow, India
Worked under **Dr. Vishal K. Singh** to develop a similarity graph and a graph laplacian matrix to enable spectral clustering with dual regularization in sensor nodes with hybrid dimensional data.

WCAR Lab | Research Assistant
Jan 2020 – Oct 2020 | IIIT Lucknow, India
Research Project on Stream Data Classification for IoT devices. Following project applies decision trees with below 1KB RAM requirement to classify data upto 98% accuracy.

Personal
Aug 2019 – Dec 2019
An arcade game emulator which uses the 8080 processor. Making the emulator play for Mac OS X 10.11 El Capitan and XCode 7, and iphone.