Aneesh Neelam

+1 (540) 449-6231, neelam.aneesh@gmail.com, aneelam@ucsc.edu

LinkedIn.com/in/aneeshneelam

GitHub.com/aneesh-neelam
Bitbucket.org/aneesh-neelam

EXPERIENCE

University of California, Santa Cruz, California, USA — *Teaching Assistant - Introduction to Operating Systems*

January 2016 - March 2016, September 2016 - Present

Taught concepts and guided students working on programing projects entailing modifying/writing a lottery process scheduler, "slim chance" pageout daemon and a new cryptographic filesystem for FreeBSD, placed in charge of grading assignments and midterm.

CorpInsights, Vellore, India — *Intern*

June 2014 - October 2014

Worked on a tool that attempts to predict the most profitable time to buy or sell stock, using Machine Learning and Technical Analysis (TA-Lib) on historical stock data taken from Yahoo Finance API.

Hindustan Aeronautics Limited, Hyderabad, India — *Intern*

June 2013 - July 2013

Helped develop the Pilot's Controller and the System Simulator software for the Indian military's Software Defined Radio (SDR) Network project.

EDUCATION

University of California, Santa Cruz, CA, USA, 95064 *Master of Science in Computer Science*

September 2015 - Present **Current GPA:** 3.51 / 4.00

VIT University, Vellore, Tamil Nadu, India, 632014 *Bachelor of Technology in Computer Science and Engineering*

July 2011 - May 2015 **CGPA:** 8.53 / 10.00

PROJECTS (Most prominent and recent here, for more check CV)

Resist: A Filesystem for Dissidents

February 2016 - Present

A FUSE file system and a Linux Device Mapper that a dissident might use in an authoritarian state. Combines some aspects of encryption and steganography to provide plausible deniability.

Port Linux to 1024 RISC-V cores on QEMU

September 2016 - Present

Ported the Linux kernel to run on 1024 RISC-V cores emulated using QEMU. Part of a project where a custom parallel memory subsystem is being developed for RISC-V.

SKILLS

Languages: C, Java, C++, Python, Node.js, Go, Haskell

App Development: Android

OSes/Platforms: Unix-based (FreeBSD, macOS), Unix-like (Linux, Android)

Databases: MongoDB, SQL-like

Tools: Hadoop MapReduce, Nvidia CUDA, OpenCL

Research

MASCOTS 2016: Subreviewer (June 2016), **Reviewed:** J. Hyun Kim, Young Je Moon and Sam H. Noh, "An Experimental Study on the Effect of Asymmetric Memory Latency of New Memory on Application Performance".

Teaching

Introduction to Operating Systems (CMPS 111), UC Santa Cruz: Teaching Assistant (Winter Quarter 2016, Fall Quarter 2016)

Interests

- Operating Systems
- Storage & File Systems
- Distributed Systems
- Computer Architecture
- Cloud Services
- GPGPU Programming
- Game Development