

# Aneesh Neelam

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

## EXPERIENCE

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

September 2016 - present, January 2016 - March 2016

Taught concepts and guided students working on programming 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.

[LinkedIn.com/in/aneeshneelam](https://www.linkedin.com/in/aneeshneelam)

[GitHub.com/aneesh-neelam](https://github.com/aneesh-neelam)

[Bitbucket.org/aneesh-neelam](https://bitbucket.org/aneesh-neelam)

## 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