Aneesh Neelam

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EXPERIENCE

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

September 2016 - present, January 2016 - March 2016

Taught students operating system concepts, helped with assignments entailing modifying/writing a lottery process scheduler, "slim chance" pageout daemon and a new cryptographic filesystem for FreeBSD, placed in charge of the grading for those assignments.

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, by performing Machine Learning and Technical Analysis (TA-Lib) on historical stock data taken from Yahoo Finance's public 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 (also known as Vellore Institute of Technology) *Bachelor of Technology in Computer Science and Engineering*

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

PROJECTS (All publicly hosted on my GitHub, most not listed here)

Dissident File System — *C*

February 2016 - Present

A filesystem that a dissent might use in an authoritarian state that combines some aspects of encryption and steganography providing plausible deniability. Written using the FUSE API for POSIX systems such as Linux, FreeBSD and Mac OS X.

SKILLS

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

App Development: Android

OSes/Platforms: Unix-based (FreeBSD, Mac OS X), 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