

# VIKRAM SASTRY

1064 Ridgmont Drive, Milpitas, CA 95035 | vpsastry@uamail.ucsb.edu | (408)-668-4426 | confidential96.github.io

---

**Objective:** Computer Engineer searching for an internship to gain experience in the industry.

## Skills

Platforms: Windows, Linux

Languages: Java, C++, C, HTML, CSS, Javascript, Python

Applications: Adobe Creative Suite, Git, Joomla, Wordpress, Sitefinity, Visual Studio, Eclipse, Arvix

## Projects

### **MPTCP Client (C):**

MPTCP is a modified version of TCP which stands for Multipath TCP. The implementation of the client involved multithreading (user-level) to maintain multiple connections over one TCP handshake while maintaining proper streams of packets. Further work includes implementing traffic control for lossy servers as well as evaluating viability through wireless networks.

### **Analysis of Intractable Problem of Minimum Maximum Spanning Tree for K-Weighted Graphs (C++):**

Implementation of MST algorithms on Graph w/ edges with k-weight, k is a natural number. This program attempted to give solutions to an intractable problem. To find a Minimum Spanning Tree to a graph with edges with k-weights. This program implemented Kruskals, Prim's, Sollin's, Fixed Iterative, and a personal algorithm on a graph with k-weights. I then timed each one and reported on the results.

To see more please refer to my Github account

## Relevant Courses

### **UCSB**

- CMPSC 40 – Discrete Mathematics
- CMPSC 56 - Advanced Java Programming
- CMPSC 130A – Data Structures and Algorithms I
- CMPSC 130B – Data Structures and Algorithms II
- CMPSC 176A - Computer Networking I
- CMPSC 176B - Computer Networking II
- CMPSC 165A - Artificial Intelligence
- ECE 154A - Digital Design and Computer Architecture

## Experience

### **Web Developer, University of California Santa Barbara Recreational Sports Department**

Goleta, CA — May 2015-Present

#### **Duties:**

- Using Joomla (Content Management System) to edit and maintain website (<http://gauchosplay.com>)
- Use Sitefinity (Content Management System) to edit new recreation page (not live but will be put up soon)
- Use of photoshop to edit photos to be uploaded to <http://gauchosplay.com>
- Created Fun and Fitness Festival page, and designed creative schemes for webpage layout (twice in last 2 years)
- Manage workflow for website creation and for UCSB Recreation's website maintenance requests

Note: To see my portfolio (FFF pages) please email me

**Languages Used: HTML, CSS, Javascript**

### **Software Developer, Fujitsu**

Sunnyvale, CA - June 2016 - August 2016

#### **Duties:**

- Developed a textual interface and backend python script which allowed for management of Virtual Machines on local server
- Implemented a Best-Fit Bin Packing scheme to optimally allocate VM resources.
- Created a graphical interface in Flask and backend python script (using XenServer API from XenCenter by Citrix) which created/deleted/managed VM's and storage on servers.
- Implemented script to pull VM information in XML format from server and create VM's with required parameters
- Reduced VM modification/creation/destruction time by 80% (from 5 minutes per VM ticket to about 1 minute per VM ticket)

**Languages Used: Python, Javascript, HTML, CSS**

## Education

University of California at Santa Barbara, Goleta, California

*Bachelor of Science, Computer Engineering anticipated 2018, 2014 - Present*