Zachary Light

1210 Strawberry Dr. • Merced, CA 95348
CELL PHONE (408)-205-1497
zlight@ucmerced.edu
https://zlight97.github.io

OBJECTIVE

Third year computer science and engineering major at UC Merced. As an outgoing individual, I am looking for a position where I can actively apply myself, and further develop my abilities as a programmer.

LANGUAGES

- Java
- C/C++
- Python
- Matlab
- R
- nesC
- MIPS
- ROS
- Shell

EDUCATION

Bachelor of Science in Computer Science and Engineering (Anticipated 2019)
at University of California, Merced: Merced, CA

RELATED PROJECTS

Class Availability Alert System
Python
A web crawler that sends an alert via email when a seat is available in a class at UC Merced.
- Written using requests python library
- Dynamic, allowing for additional classes to be added without modifying any code
- Uses file I/O, and string parsing to accurately find and send correct data

Algorithms
C/C++
Written for a Data Structures and Algorithms class
- Used to learn runtime and memory efficiency for large data sets
- Various dynamic and greedy algorithms
- Graph algorithms

Network Development
nesC with Tossim
Written for a Networks class
- Includes flooding and linked state routing
- Implements a simplified version of TCP
- Has a simple chat room using its TCP implementation

Image Processing
MATLAB
Written for an image processing class
- Written various image processing functions:
    - Halftoning using Floyd's method
    - Image resizing using bilinear interpolation
    - Histogram equalization
    - Edge detection using special filtering
    - Finding the most dominant line using Hough transformation