

Address: Elk Grove, CA, 95758

Language: C++, HTML/CSS, Matlab, Verilog, MIPS

Github: github.com/xempst **Webpage:** xempst.github.io

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2017

Summary

Undergraduate Computer Engineer at University of California: Santa Barbara looking for Software Engineer Internship. Through course works, I have build up an understanding of data structures, algorithms, and computer architecture, and I wish to apply everything I learned in practical use.

Education

Computer Engineering B.S University of California: Santa Barbara	2021
GPA: 3.2	
Expected Graduation: June 2021	
Academic Courses	2016
Data Structure and Algorithms I in C++ - University of California: Santa Barbara	2019
Implemented Max-Heap to output 3 student with the highest grade of a given gradebook data Implemented Prims/Kruskal Algorithm to generate a MST of a given weighted graph	
Data Structure and Algorithms II in C++ - University of California: Santa Barbara	2019
Used DP to efficiently calculate the similarity of 2 DNA strings	
Implemented Randomized Algorithm to find the linear regression line of a given data set	
Image Processing in Matlab - University of California: Santa Barbara	2019
Implemented Seam-Carving and Randomized Patch Match method for content-aware image resizing Implemented Richardson-Lucy Algorithm to denoise an image using a known-blur filter	
Computer Network in C - University of California: Santa Barbara	2019
Designed and Implemented a TCP hangman server/client capable of multiple concurrent games by hreads	using
Understand different routing protocols (e.g. Link-State, Distance-Vector, BGP)	
Computer Architecture in Verilog/MISP - University of California: Santa Barbara	2019
Simulated a MISP single/multi cycle processor in ModelSim	
Wrote a calculator and radix sorting algorithm using MISP assembly language	
Circuit Design in Verilog - University of California: Santa Barbara	2019
Programed a FPGA to be able to be used as a microcontroller for tail-light signal of a car	
Programed a FPGA to work as a timer when connected to a LED display	
Personal Project	
Personal Website - xempst.github.io	2018
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· Built a personal resume website using HTML and CSS

· Choice driven game with multiple ending written in Python

Visual Novel Game - Programmer/Story Writer