

Ryan Adam McCrory

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Education

Bachelors of Science in Computer Science

- ❖ University of California, Santa Cruz *June 2020*
 - 3.20 GPA
- ❖ Laguna Creek High School, Elk Grove CA *May 25, 2016*
 - Graduated with Honors and a 4.25 GPA

Projects

Poker Simulator Web App

- ❖ Heads Up Texas Hold Em game written in javascript using React
- ❖ Uses Firebase as a database for communication between players online
- ❖ Developed using the SCRUM process over a two month period

Multi-Threaded Web Server in C++

- ❖ An httpserver that accepts get, put, and patch requests from a client via curl
- ❖ Has options to indicate number of threads, create/edit a mapping file used for aliases, and to log requests in a specified file

N-Gram Language Models in Python

- ❖ This program builds and evaluates unigram, bigram, and trigram language models
- ❖ The models are trained on one data set by adding all words to a dictionary with the values being the number of instances in the data set, then further developed on another data set
- ❖ Each model calculates the perplexity for a given data set which evaluates how effective it is

Relevant Coursework

Data Structures

Abstract Data Types

Analysis of Algorithms

Computational Models

Advanced Programming

Natural Language Processing

Business Information Systems

Computer Assembly Language

Computer Architecture

Comparative Programming

Software Engineering

Computer Security

Calculus 1, 2, 3

Linear Algebra

Applied Discrete Math

Probability / Statistics

Operating Systems

Python

Skills

C++, C, Java, Python, Unix, mySQL, Perl, Prolog, React, Algorithm Analysis

Extra Curricular

Camp Counselor - Camp Kesem UCSC

February 2019 - Present

- ❖ Help provide a free, week long summer camp for local kids who have been affected by a parent's cancer