

MACK GREGORY

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OBJECTIVE

I am looking for a full time role starting 2022 in software engineering

EDUCATION

University of California - Davis

September 2018 - December 2021

Working towards a Bachelor of Science, Computer Science with a minor in Mathematics

GPA: 3.693/4.000; Computer Science GPA: 3.870/4.000

Relevant Coursework: Data Science, Web Programming, Artificial Intelligence, Data Structures

TECHNICAL SKILLS

Languages

C++, C, Python, JS, Rust, Bash, MATLAB

Software & Tools

Git, Vim, L^AT_EX, CMake, GoogleTest, MPI, OpenMP

PROJECTS

Earthquake Report Processing Fall 2020

Worked in a team to run character recognition on a data set of hundreds of scanned earthquake felt reports as part of a Data Science Class. My contributions included a neural network for classifying underlined, circled, and other categorical responses achieved more than 90% accuracy in our testing. The data will be useful to researchers desiring to look at long term trends of earthquakes to help make predictions as to the location and severity of future seismic activity. GitHub

UC Davis Math Department 2019 Summer Research Fellowship

Prepared and presented a poster on improving the accuracy of particle-in-cell methods for an open source C++ code ASPECT which is used for modeling properties in earth's mantle

Worked closely in a team with a math professor and several geodynamicists to ensure the accuracy of the model

HackDavis Hackathon January 2020 - bit.ly/3aIGyl7

Ran sentiment analysis on news articles and displayed positivity on a color scale in text on a sentence by sentence basis, as well as providing a short summary of the article and links to other articles on the subject

Created a Chrome Web Extension using JS

Worked in a team of four to layout functionality in a prototype, extract the article text through the use of various APIs

EXPERIENCE

Computational Infrastructure for Geodynamics

October 2019 - Present

Computer Programmer

Provide support and feature updates to ASPECT to help computational geodynamicists at UC Davis and remotely as they create and test new models and methods. My work has helped researchers create 3 posters so far, as well as at least one paper that is in progress.

UC Davis Cyber Security Club

September 2019 - Present

Outreach Officer and Systems Administrator

- Market the UC Davis Cyber Security club to promote the clubs technical workshops, competitions, and networking events. Also maintain servers used to teach our members how to accomplish exploits.

UC Davis Computer Science

September 2019 - December 2019

Peer Tutor

- Worked to help students with their understanding of Python, C, C++, and general programming concepts

AWARDS

Boy Scouts of America: Eagle Scout

May 2016