



DHRUV SUJATHA

West Lafayette, IN · dsujatha@purdue.edu · (765) 746-9702 · dsujatha.xyz ·  dhruvsujatha ·  dhruvsujatha

I am looking for an internship for an in-person/remote internship for Summer 2024. I am interested in working on software projects related to distributed systems and high performance computing, specifically software development and performance analysis.

EDUCATION

Purdue University

Bachelor's of Science - Computer Science
Bachelor's of Science - Data Science

West Lafayette, IN

Expected Graduation: May 2025

GPA: 3.98

Proficient Languages: Python 3.x, C, Java, C++, R, SQL

PROFESSIONAL EXPERIENCE

Hewlett Packard Enterprise

Systems Software Engineering Intern

Durham, NC

May 2023 - August 2023

- I am working with the Nimble Storage team to develop Object Store capabilities for the HPE Greenlake Cloud Services Platform using the Amazon S3 Protocol.
- Developed a Signature Collection and Log Analysis tool to analyze the performance of the NimbleOS and FleetOS and formulate regression reports on a dashboard and increase test automation efficiency by 3x.

Skills Developed: Python, ReactJS, Elastic Stack (ELK), Git, Regression Test Planning

Rosen Center for Advance Computing (ITaP)

Student High Performance Computing Engineer

West Lafayette, IN

January 2022 - Present

- Responsible for the planning, inventorying, deployment, and maintenance of 9 supercomputing clusters on campus. Developed pipelines to automate cluster management tasks such as logging and monitoring.

Skills Developed: Python, Bash Scripting, NetBox, Redfish, xCAT, SLURM, Asana

OTHER EXPERIENCE

Student Cluster Competition - SC 2022

November 2022 - Dallas, TX

- Part of the SCC team representing Purdue University and Indiana University at the Supercomputing Conference 2022. Worked on the development of a mini supercomputing cluster capable of running scalable HPC applications such as PHASTA and LAMMPS. Optimized and compiled state of the art benchmarks such as HPL, HPCG, and MLPerf. Created a dynamic power management interface to monitor and control the power consumption of the cluster by underclocking and limiting the GPUs and CPUs.

Skills Developed: C++, Linux Kernel, Python, Bash Scripting, Spack, OpenMPI, CUDA, Git

Autonomous Robotics Club of Purdue

Server Admin Team

January 2022 - West Lafayette, IN

- Part of the Server Administrator Team responsible for the upkeep of the technical stack used by all the projects at ARC. Worked on deploying the infrastructure for the ARC website and the ARC Discord server using Docker.

Skills Developed: Python, Bash Scripting, Docsy, Hugo, Docker, ProxMox

Piano Hand Project - Software Team Lead

- Leading the software team to develop a serial API to control a biomechanical hand to play the piano. Using deep learning frameworks to train a model which can recognize music to dynamically control the hand.

Skills Developed: Arduino C, MicroPython, Mosquitto

CERTIFICATIONS AND AWARDS

ASA Datafest 2022

American Statistical Association

• Recognized by the American Statistical Association for my work in finding meaning from a large and complex data set to aid in data-driven decisions.

March 2022

AITP Computing Challenge Day 2022

Association of Information Technology Professionals

• First in the *ITaP Super Computing Challenge* where we had to optimize rendering of a simulation of our universe utilizing ffmpeg, OpenMPI, and Intel MPI.

April 2022

• First in the *DataMine ML Challenge* where we had to derive the conditional probabilities of target features in a dataset and visualize it as a graph.