Dhruv Sujatha

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Education

Purdue University — *West Lafayette, IN*
Bachelor's of Science - Computer Science *GPA: 3.5* — *August 2021 - May 2025*

Purdue University — *West Lafayette, IN*
Bachelor's of Science - Data Science *GPA: 3.5* — *August 2021 - May 2025*

Professional Experience

Rosen Center for Advance Computing (ITaP) — *West Lafayette, IN*
Student High Performance Computing Engineer — *January 2022 - Present*

- Responsible for the maintenance of 9 supercomputing clusters, planning, inventorying, and deploying new clusters.
- Currently working on deploying our newest research cluster, Negishi.
- Gained valuable experience in developming tailored software for supercomputing clusters.

Skills Developed: Python, Bash Scripting, NetBox, RESTful APIs, xCAT, SLURM, Asana

Farfetch — *West Lafayette, IN*
Data Science Researcher — *August 2021 - May 2022*

- Worked with a team of students via The DataMine Learning Community to store, analyse, and interpret fashion data to develop a Deep Neural Network model to predict size and fit.
- Deployed the finalized model on the cloud and setup pipelines and workflows for the upkeep of the model.
- Gained valuable experience in the use of Agile Software Development methodologies and related tools such as Asana, Trello, and Jira.

Skills Developed: Python, Tensorflow, Sci-Kit Learn, Pandas, MySQL, Trello, Jira

Other Experience

Autonomous Robotics Club of Purdue — *West Lafayette, IN*
Server Admin Team

- 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

- Working with the software team to develop a firmware for a biomechanical hand which will be capable of playing the piano like a human being.

Skills Developed: C++, Arduino, MicroPython, Mosquitto

Quantum Game Club — *West Lafayette, IN*

- Learning the concepts of quantum mechanics and how it can be used in place of traditional computing.
- Using technologies such as Q# and Qatalyst from Quantum Computing Inc. to build optimized quantum applications.

Skills Developed: Q#, Qatalyst, Azure Quantum SDK

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.

Visit my Website at dsujatha.xyz for more information.