JAYANT DUNEJA

Seeking Internships for Summer 2024

Boulder, CO | jayant.duneja@colorado.edu | 720-339-6970 | LinkedIn: https://www.linkedin.com/in/jadu3305/
Github: https://github.com/Jayant-Duneja | Portfolio: https://jayant-duneja.github.io/

EDUCATION

MS in Computer Science — May 2025
University of Colorado Boulder

B.Tech(Honors) in Electronics and Communication — May 2022
International Institute of Information Technology, Hyderabad, India — 8.86 GPA
Dean's List Award for Academic Excellence for 3 semesters
TA for Digital Image Processing Course

SKILLS

Programming Languages: Python, Java, C/C++, Javascript, SQL, Bash, Matlab, HTML, CSS

Tools/Frameworks: SpringBoot, OpenCV, Numpy, PyTorch, Kubernetes, Docker, Git, Sonarqube, Concord, Jenkins, Linux, GCP, REST APIs, Splunk, MongoDB, Databricks, NodeJS, ReactJS, MySQL, Postgres, AWS, Kafka, PySpark

PROFESSIONAL EXPERIENCE

Software Engineer II — July 2022 -- July 2023
Walmart Global Tech — Bangalore, India

- Developed an event-driven architecture for data pipelines using Java, SpringBoot, and Google PubSub which helped automate ~75 workflows. Added unit and integration tests employing technologies like Junit and Sonarqube.
- Designed and implemented pipelines within Azure Data Factory to facilitate simulation of ETL (Extract, Transform, Load) processes.

Software Engineering Intern — May 2021 -- July 2021
Walmart Global Tech — Bangalore, India

- Worked in the Customer Experience Team focusing on providing a one-stop solution to businesses for transaction related communication across all channels.
- Developed and tested a Command Line Interface tool in Python to reduce lookup time and automate examination of error logs on Splunk Dashboard utilizing API Calls; Was awarded with PPO based on performance.

Undergraduate Researcher — Jan 2022 -- Oct 2022
CVIT, IIIT-H — Hyderabad, India

- Worked on improving the pipeline for generating bounding boxes of MeronymNet, a controllable multi-category object generation model utilizing Computer Vision Techniques.
- Conducted various experiments by altering the existing structure of the model, introducing new losses, and tuning various hyper-parameters to obtain better accuracies.

PROJECT EXPERIENCE

Large Prime Generator

- Built a prime number identifier by creating a server for computation and a dynamic set of workers to test primality using the Rabin-Miller test and multi-processing library in Python.

Machine Translation Using Attention

- Developed an English-Hindi Machine Translation using Attention mechanism in Seq-2-Seq Neural Network Model using LSTM and GRU.

Image Style Transfer

- Performing style transfer from a reference image in one domain to another image, to 'paint' the input image in the Reference image's style, through Deep Learning.

Manga Colorization

- Constructed a novel colorization technique to propagate color over regions exhibiting pattern continuity and intensity continuity for manga comics.

PUBLICATIONS

Gahoi, A., et al. (2022). Gui at MixMT 2022 : English-Hinglish: An MT approach for translating code mixed data.

- Proceedings of the Seventh Conference on Machine Translation (WMT), pages 1126–1130. arXiv preprint arXiv:2210.12215