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Skills

- Computer Vision, Graph Machine Learning, Natural Language Processing, Deep Learning, Data Science, Web Development
- **Proficient:** C, C++, Python, HTML, CSS, Sass, JavaScript, TypeScript, React, Next.js, MaterialUI, Django, PyTorch, PyTorch Geometric, NumPy, pandas, Scikit-learn, Matplotlib, Linux command line, GitHub actions, Circle CI, Docker, beautiful-soup
- **Exposure:** PHP, MySQL, Material Design, Jekyll, REST APIs, Tensorflow, Dask, Deep Graph Library, Static website deployment, shell scripting, web scraping, Triton by OpenAI

Projects

- **Full stack shopping website.** Created an online bookstore with HTML, CSS, JavaScript, jQuery, Django, with support for user authentication through email, change/forgot password, and full process for placing an order including payment method, like Amazon.
- **Live chat messaging server.** Created a multi-threaded messaging server in C++, where clients can connect and logoff and send messages to other clients connected to the server, like WhatsApp by Meta.
- **Parking space detection system.** Implemented a fully-deployable system to detect parking spaces from video feed using PyTorch. It won first place in TechGig CodeGladiators where 12 teams were selected from all across India through 3 rounds of screening.
- **Image-to-Image translation using GANs.** Released the first open-source implementation of SPADE/GauGAN by Nvidia, where an image with some predefined colors is converted to a real life image.

Additional Experience

- Maintain a personal blog, discussing recent papers and in-depth tutorials.
- Paper reviewer for CVPR 2021 Biometrics Workshop, jointly with the Workshop on Analysis and Modeling of Faces and Gestures
- Paper reviewer and presentation judge at Georgia Junior Science and Humanities Symposium (GJSHS)
- Represented Chandigarh (India) at the North-Zone regional finals in IT Software Solutions for Business in IndiaSkills competition
- Made an 8-bit computer on breadboard. Implemented Add, Subtract logic using NAND chips with memory modules. Presented the work to school students at PEC IEEE Project showcase.

Employment

Teaching Assistant	University of Georgia	Spring 2022
<ul style="list-style-type: none">• Courses: Discrete Mathematics for CS, Data Science• Led weekly meetings and taught programming and how to do fair data analysis		

Education

Athens, GA	University of Georgia	Spring 2021 – Dec 2022
<ul style="list-style-type: none">• M.S. in Computer Science, Dec 2022 (expected). GPA: 3.88		
Chandigarh, India	Punjab Engineering College	Aug 2016 – Jul 2020
<ul style="list-style-type: none">• B.Tech. in Electronics and Communication Engineering, Jul 2016.		