Tanya Jain

https://www.tanya-jain.xyz • tanyaacjain[at]tanya-jain.xyz

PROFILES LinkedIn, GitHub
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EDUCATION

Amity University Uttar Pradesh, Noida (AUUP) — Uttar Pradesh, India
B.Tech. in Computer Science and Engineering - 3 Continent — GPA: 7.68/10.0, MAY 2020
Advisor: Dr. Garima Aggarwal.   **Specialization**: Artificial Intelligence — Rank 4 in a class of 40.
Thesis: Analysis of Vehicle Collision Prediction Algorithms Using CNN.

Semester Abroad, Adelphi University, Garden City, New York, USA
Semester Abroad, Birkbeck University, London, UK

CERTIFICATION
Microsoft Technology Associate: Database Administration Fundamentals (MTA) — SEPTEMBER 2019
Analytics for Business Intelligence by Amity Global Institute, Singapore — DECEMBER 2017
Fit in Deutsch 2 by Goethe Institut e.V. (with scholarship for best performance) — OCTOBER 2013

WORK EXPERIENCE

Essentia Softserv LLP — Remote
Software Developer Engineer — JUNE 2020 - PRESENT
- Introduced key agile software engineering practices in the project workflow like database architecture design, API flow diagrams. Thus, reduced overall project's timeline to 40%.
- Automated key e-commerce tasks for clients like developed OCR for invoice data analysis and automated generation of e-commerce admin portal, thus reducing the project cost significantly.
- Designed, developed, tested, deployed and maintained web and mobile based applications.
- Trained a team of 20 students for the departmental roles: front-end, back-end, testing, devops
- Designed UI/UX, user story. Delivered talks to the team for shared learning.

LeBow College of Business, Drexel University — Philadelphia, PA
Technical Project Head — MAY 2019 - JUNE 2019
- Developed a centralized contact database, designed website section, managed teammates for A.J.Drexel Autism Institute with MIS 347: Domestic and Global Outsourcing course students.

Jax Healthcare Foundation
- Interned as an executive member, developer and a graphic designer. — NOVEMBER 2017 - 18

PROJECTS

Vehicle Collision Detection, Pytorch — MARCH 2020
Built CNN to detect vehicle collision in image dataset via classification.

Neural Style Transfer, Keras — NOVEMBER 2019
Displayed real-time video with style transferred from a selected art piece.

emouzisch, Tensorflow, HTML - CSS - JS — OCTOBER 2019
Developed a music web application based on real-time emotion detection.

Kensho, Python - Pelican, HTML - CSS - JS — APRIL 2019 - PRESENT
Developed a static blog with read time predictor, articles recommendation.
Wrote articles on recent projects and reads on autonomous technology.

Automated Gas Station, Java — MARCH 2019
Simulated cars activity in a gas station via a console UI application.

Generative art, Python - Drawbot, Pagebot; Processing.JS — OCTOBER 2019
Created generative art, and designed branding kits with it.

Systemd.service files, Shell Scripting — FEBRUARY 2018
Wrote automated scripts to execute tasks using service files.

GitHub-Visual, Python - NumPy, Pandas, JSON, GraphQL — SEPTEMBER 2017
Visualized GitHub user data with JSON queries via GraphQL API.

Web Scraping, Python — FEBRUARY 2018
Scraped News articles, professors' public emails to invite to Confluence'17.

OTHER SKILLS

Programming languages and mathematical packages: C, C++,MATLAB, GNU Octave
JavaScript frameworks: JQuery, React.js, Vue.js, Nuxt.js, d3.js
Design softwares: Adobe Photoshop, Adobe Illustrator, Adobe InDesign, Adobe Premier Pro, Corel Draw, GIMP
Other: GNU/Linux (Ubuntu), Mac OSX

Community Experience

5.1 Open Source Activities   GitHub, https://github.com/tanyaacjain

Pandas Used by 134,515 repositories. Starred by 21,292 users. Forked by 8,422 users   2018 - 2019
- Improved pandas.Index.contain docstring. **Reviewers:** Marc Garcia, Jeff Reback

  Pandas Mentoring,
  Mentor: Marc Garcia   2019
  - Visualised a bar plot with count of errors in the docstring via error codes.
  - Created a DataFrame for each error code with its summary. Improved pandas IO docstring.
  Reviewers: Marc Garcia, William Ayd, Joris Van

Exercism, *Mentor*, Starred by 5,745 users. Forked by 1,000+ users   2018
  Reviewed Python, JavaScript and Bash problems submitted via Git.

ALiAS, *Repository Maintainer*   January 2017 - Present
- Contributed and reviewed code for the ALiAS repositories.
- Developed React-Native ALiAS mobile application   May 2018 - July 2018

5.2 Voluntary Activities

Designed the conference brochure for PyCon attendees, speakers and volunteers.	*PyCon India.*	2020-21
Discussed the impact of Artificial Intelligence and enhancing skills to minimize job risk.	*Collective Co-Living.*	2019
Educated underprivileged children on science, literature and mathematics.	*Inner Wheel Club.*	2018-19
Facilitated a fun learning workshop to correct volunteered, malfunctioned systems.	*LinuxChix India.*	2018
Finalized main design theme and designed wire frames for the mobile application.	*PyCon India.*	2017
Contributed code front-end, designed poster, organised meetups.	*LinuxChix India.*	2017
Designed media kit, T-shirts, backdrops, welcome kit. Moderated & Facilitated talks.	*PyDelhi Conf.*	2017

5.3 Speaking Engagements

"Writing tests in Vue.JS with Vue Test Utils",	Essentia Softserv LLP.	2020
"Writing clean code and following agile practices",	Essentia Softserv LLP.	2020
"Understanding systemd.service files",	LinuxChix India.	2018
"Exploring NumPy using fractals",	PyDelhi.	2017
"Women in Python" Panel Discussion,	PyDelhi Conf.	2017

Achievements

6.1 Prizes and Honors

- **Shri Baljit Shastri Award for Best in Human Values and Tradition.** *Most coveted in Amity University.*   2020
- **Best Website Design Award.** TRACE 2018 Conference, Amity University   2018
- **Best GIS web app developed in ASET**. Used for detecting and analyzing irrigation and soil mineral levels in   2017
  Himalayan region for CRC researchers working under the Government of India. **Advisor:** Dr. Madhuri Kumari
- Invited by Ministry of Electronics and Information Technology for the spirit of volunteerism and participative   2014
  governance, MyGov event graced by Hon'ble Prime Minister of India, Shri Narendra Modi

6.2 Research and Publications

Jain Tanya, Garima Aggarwal and Sumita Gupta. "Analysis of Vehicle Collision Prediction Algorithms Using CNN."	2021
"A/B Testing using Bayesian Statistics", Technical Paper	2017
IIIT Delhi - Building Better Village. **Finalist research proposal**	2016
"What is better Gandhigiri or Dadagiri?", article on Gandhi Jayanti. Indian Express Newspaper.	2009

Institutional Service

• Moderated and Facilitated research paper presentations.	Confluence 2018.	2018
• Designed business proposal for Amity's annual tech conference.	Confluence 2017.	2017

ALiAS **TECH SOCIETY**, *Founding member, President (2018), Vice President (2017)*   2016-20
- Initiated community to foster open source culture, collaborative work
- Organized daily meetups, weekly calls, events, linux installation drive, *Hacktoberfest*
- Encouraged introduction of new Python course in institution.
- **"Computer Networks, Linux Study Group"** by Prof. Dr. Priya Ranjan. Participated
- **"Front-End study group"**, **"Machine Learning study group"**. Supervised and participated

Strokes Fine Arts Society, *Vice President (2019)*   2016-20