

Aksh Desai

Location: Valsad, Gujarat, India

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Profile

I am a third-year Information Technology student at CSPIT, Charotar University of Science and Technology. Proficient in Java, Python, C, C++, and source management tools like Git and GitHub. I am currently a part of the Graphics and Media team for the CP Squad Student Club at the college. I am passionate about technology, I have developed and deployed multiple open-source projects in various domains.

Technical Skills

Languages	: Java, Python, Dart, C, C++
Databases	: Oracle, MySQL, Firebase
Tools	: Git, GitHub, Docker
Non-Coding Skills	: Photoshop, After Effects, Premiere Pro, Excel, Blender

Experience

Intern May 2024 - Jun 2024

Atul Ltd

Atul, Gujarat, India

- Worked on various projects across multiple domains such as Python with AI/ML, Python with automation, Database, and web, etc.
- Researched open-source ML models and created a pipeline for automating specified systems.
- Assisted in system design and database schema designing while assisting with normalizing the schema.
- Automated and created an ATS-like system using python.

Graphics and Media Team

CP Squad, CHARUSAT

Mar 2024 - Current

Changa, Gujarat, India

- With another team member, I worked as the Graphics and Media team for the CP Squad student club.
- Worked using tools such as Adobe Photoshop, Adobe Illustrator, and Canva

Intern

Sapient Codelabs

Feb 2023 - Jul 2023

Surat, Gujarat, India

- I continued the previous project from the previous internship and worked more on it while leading the same team.
- Completed and represented the project to the company and the college.

Intern

Technomads Solutions Pvt Ltd

Jul 2022 - Feb 2023

Surat, Gujarat, India

- Lead a team of 5 other interns while creating a mobile application using Flutter and Firebase
- Was the SPOC for the college and the company, representing my team.

Education

CSPIT - Charotar University of Science and Technology

Bachelor of Technology, Information Technology

Changa, Gujarat, India

Aug 2023 - Present

Gujarat Technological University

Diploma, Information Technology

Surat, Gujarat, India

2020 - 2023

Atul Vidyalaya

Secondary School

2020

Valsad, Gujarat, India

2007 -

Projects

Our Community

Flutter (Application Development)

- Created an intra society communication and management service under an internship while leading a team of 5 other members.
- Provided a platform for communication in a society, payment of maintenance, raising of issues and much more.

GitHub Repository: <https://github.com/Our-Community-TDEC/Our-Community>

Project Watchdog

Python (Cyber Security and Digital Forensics)

- Created a desktop privacy and security monitoring service using python
- Users get notified of blocked people and states occurring on their devices and the device gets locked or shut down.

GitHub Repository: <https://github.com/Our-Community-TDEC/Our-Community>

PyCompare

Python (Image)

- Efficiently scale across many cores and between CPU and GPU (CUDA) when chosen.
- Can compare a terabyte of photos while effectively only utilizing 16GB of system memory in most cases.
- Modular and powerful, allowing user to be in control of each attribute of the system.

GitHub Repository: <https://github.com/AkshDesai04/PyCompare>

Publications

Desktop security: A Swiss-cheese approach

Write domain here

- Write about it here

Link: [Add a link to the paper when published](#)

Docker in Docker performance penalties

Write domain here

- Write about it here

Link: [Add a link to the paper when published](#)

LockBit: A case study

Write domain here

- Write about it here

Link: [Add a link to the paper when published](#)

Penalties of logging

Write domain here

- Write about it here

Link: [Add a link to the paper when published](#)

Inter-browser rendering performance differences

Write domain here

- Write about it here

Link: [Add a link to the paper when published](#)

Redesigning system architecture to improve security at critical high-value places

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- Write about it here

Link: [Add a link to the paper when published](#)

Certifications

Our Community

Flutter (Application Development)

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Volunteering

Website making and deployment

Nov 2022 - Feb 2023

Habitat for Humanity

Valsad, Gujarat, India

- Designed, developed, and deployed a website pro bono for a local NGO.
- Implemented updates and enhancements based on the organization's evolving needs.