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Ansh Tiwatne

I am a first-semester B.Sc. Computer Science student at Universität des Saarlandes. I'm into building software (with some previous work experience as a developer). I also enjoy learning math, exploring open source projects, (and playing ultimate frisbee).

🛠 PROJECTS

I'm constantly working on new projects which are usually open-sourced on GitHub —here are a few favorites:

- **DLRC Daily** — A short form news app (like Inshorts) developed for my school community, built in Next.js with a Firebase backend.

- **Prana Daan** — React app for managing registrations and automating processes for semiannual blood donation drives at Inspirit Vision.

- **Chalo Daudne** — React app for tracking runners, generating certificates and managing volunteers during biannual community marathons at Inspirit Vision.

- **DLRC Weather** — A Raspberry Pi weather station installed in my school that records and displays real-time weather data on a website.

- **Wordle Solver** — An efficient Wordle solving algorithm and scraper written in Python using Playwright, as a learning project.

👨‍💻 WORK EXPERIENCE

- **Software Developer @ NeuraSee**   Jun 2025 - Oct 2025
  Developing a web portal for that leverages Magnetic Flux Leakage (MFL) data for AI-driven defect detection in Oil & Gas pipelines.

- **Computer Science Teacher @ DLRC**   Jun 2024 - Oct 2025
  Teaching A-level Computer Science to grade 12 at DLRC.

- **Software Developer @ Inspirit Vision**   Oct 2023 - Aug 2025
  Developing apps to advance CSR initiatives and automate processes for hundreds of users during company-wide events.
  Recommendation ⬈   Project Certificate ⬈

- **Tech Intern @ 1point01**   Apr 2022 - Jun 2022
  Involved creating a pamphlet program for NGOs to communicate their objectives better and developed a Jekyll website, serving as an NGO directory.
  Certificate of Internship ⬈

- **Tech Intern @ WeShineTech**   Apr 2021 - May 2021

  Provided chat support. Created video tutorials. Improved social media presence. Made minor improvements to their website.

  Internship Letter ⬈

💼 ADDITIONAL EXPERIENCE

- **App Developer & Editor @ DLRC News Network**   Jun 2022 - Dec 2024

  Developed and published the DLRC Daily app as a platform for sharing short-form news and updates across our school community, bringing it closer together. Led a team of interns in publishing stories. Designed and helped compile our first school magazine.

  Letter of Appreciation ⬈

- **Physics Lab Intern @ DLRC**   Aug 2022 - Mar 2024

  Prepared experiment setups for high school lab sessions. Organized and maintained lab instruments. Assisted in teaching experimental Physics. Performed demonstrations for school fairs.

  Letter of Appreciation ⬈

- **Math & Science Learning Support Intern @ DLRC**   Aug 2022 - Oct 2022

  Helped students with doubts. Checked tests and homework. Planned experiments for middle school Math and science classes.

  Letter of Appreciation ⬈

🖥️ LANGUAGES (computer)

- Python – advanced
- JavaScript – advanced
- TypeScript – advanced
- Bash – intermediate
- HTML & CSS + Tailwind – advanced
- SQL – beginner
- QBasic – intermediate
- Prolog – working knowledge
- x86 Assembly – working knowledge

🌐 LANGUAGES (human)

- English – native
- Hindi – proficient
- Marathi – native

🧑‍🎨 SKILLS

- React + Next.js, Vite
- Firebase
- Docker
- Git & GitHub

🤝 COMMUNITY SERVICE

- **Volunteer/Mentor @ Living Academy**   Jun 2024 - present

  Teaching basic programming and mentoring kids in under-resourced communities through hands-on STEM projects. Expanded Living Academy's reach to my school campus where I led weekly two hour sessions with another volunteer.

- **Founder @ Sustainable Suds** **Jun 2024 - Dec 2024**

  Dissatisfied with amount of soap waste generated by hotels, founded a project to repurpose it. Partnered with four hotels and led two high school students that joined the initiative. Raised money selling soap for Samajbandh India.

- **Volunteer @ DLRC-DSS Program** **Feb 2022 - Apr 2022**

  Taught NCERT science syllabus online to a batch of 10+ middle school students weekly during government school closures. Planned and guided them through several at-home science experiments to keep students engaged through the lockdown.

📝 EDUCATION & TESTING

IGCSE (10th)
- Physics: A*
- Mathematics: A*
- Chemistry: A*
- Geography: A*
- Eng 2nd Lang: A*

AS Levels (11th)
- Physics: A
- Mathematics: A
- Chemistry: A
- Computer Science: A
- General English: A

A Levels (12th)
- Physics: A*
- Mathematics: A*
- Computer Science: A*

SAT (superscore): 1530/1600   Reading & Writing: 740, Math: 790

IELTS: overall band score 8

☀️ SUMMER PROGRAMS

- **Lodha Genius Programme** **May 2023 - Jun 2023**

  Admitted as one of 100 students across India into a fully funded month-long residential STEM program at Ashoka University. Studied math (number theory, geometry and combinatorics), astronomy and microscopy. Conducted two programming lessons (at microscopy professor's invitation). Made significant contributions and guided my teams in final science projects.

  Certificate ↗   Post ↗

- **Light Touch Programme** **Jul 2023 - May 2024**

  Online extension of the Lodha Genius Programme. Continued study of advanced math, astronomy, microscopy and picked up an additional quantitative biology module.

📚 ONLINE COURSES

- HarvardX: CS50's Introduction to Computer Science
- Google IT Support Professional Certificate
- System Administration and IT Infrastructure Services
- Crash Course on Python
- Using Python to Interact with the Operating System

⚽ EXTRACURRICULARS

- **Co-Founded HackDLRC**   **Sep 2023 - Dec 2023**

  Launched a coding competition with a friend. Developed a platform for the competition in React. Reached out to sponsors, raising $14000 worth of awards. Designed posters and messages to promote the event to schools and communities. Authored coding challenges. Organized an award ceremony. Recruited and now mentoring 3 students to take lead for future events.

- **Co-Led School's CS-Club**   **Jun 2022 - Feb 2023**

  Organized classes 2x/wk. Taught computer fundamentals, Python basics, microprocessors and game development. Culminated each topic organizing a hands-on group project.

- **Ultimate Frisbee**   **Jul 2023 - Nov 2023**

  Member of school's ultimate frisbee team. Participated in weekly practices. Competed in the West Regionals National School Ultimate Championship, securing 3rd place, awarded MVP for one of the matches.

🏆 COMPETITIONS

- National School Ultimate Championship   Certificate ↗
- CS50x Puzzle Day 2024   Certificate ↗
- CS50x Puzzle Day 2023   Certificate ↗
- Google Code Jam 2023   Certificate ↗