Gourav Anand

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Education

- **Vellore Institute of Technology** — Vellore, India
  Bachelor of Engineering in Electronics and Communication ; CGPA: 7.78 — *Sep 2021 – Aug 2025*
- **Kendriya Vidyalaya Sangathan** — Delhi, India
  12th grade with computer science; CGPA: 7.91 — *July 2020 – July 2021*

Experience

- **Bharat Electronics Limited** — Banglore, India
  Mil-Com Intern — *Aug 2023 – Sep 2023*
  - **Military communications**: Engineered a streamlined workflow in military communications, optimizing the process from idea generation to production by implementing systematic part sourcing, detailed simulation analysis, and internal approvals—reducing time-to-market by 30%. Once approved, the ordering party conducted a final review before production commenced.
  - **Military Radar**: As an intern at BEL's Military Communication department, I observed the development of advanced, secure, and interoperable defense communication systems, including radios and encryption solutions. The team focused on innovation, rigorous testing, cybersecurity, and modernization to enhance military operations while collaborating with research and defense organizations to drive technological advancements.
- **DIRO** — Vellore, India
  Research and development Intern — *Feb 2023 – Mar 2023*
  - **Research** : Conducted in-depth research on various vehicle types, evaluating their performance, cost-effectiveness, and potential for reliability improvements through advanced sensors and technologies. Additionally, analyzed the driver rating systems used by Ola, Uber, and Rapido to understand their functionality, impact on service quality, and overall effectiveness in maintaining customer satisfaction.
  - **Notion**: Initially, we managed data using Google Docs, but I led the transition to Notion for its superior features and functionality. I designed the entire workspace, structured pages, and streamlined workflows to ensure seamless collaboration and alignment across the team.

Projects

- **Oceanwatch**: Developed OceanWatch, an AI model utilizing YOLOv8 on Python and Google Colab's GPU, to identify plastic and waste in underwater images and videos. The model efficiently handles noisy environments, improving waste detection and environmental monitoring.
- **Rusher**: Developed a platformer game using Python and the Pygame library, featuring player movement (left, right, jump) with collision detection for platforms and traps. Designed core gameplay mechanics and implemented a responsive control system for an engaging user experience.
- **Chat-RTC**: Developed a real-time chat application with a robust frontend-backend architecture, enabling seamless messaging. Integrated features like image and GIF sharing, along with automatic chat and room deletion upon user exit, ensuring a smooth and clutter-free experience.
- **UI/UX Design Portfolio**: A dedicated website showcasing Figma designs, including animated wireframes, interactive prototypes, and high-fidelity mockups, providing a dynamic and engaging presentation of design concepts.
- **Neuron**: Developed a digital second-brain website that enables users to save, categorize, and search through links, documents, and other resources based on context. Designed for seamless organization and quick retrieval of information, enhancing productivity and knowledge management.
- **Project 5**: Spent five months mastering AI, Machine Learning, game development, web development, extension development, and API creation. This project is a collection of hands-on implementations, showcasing expertise across multiple domains through practical applications.

Skills

- **Languages**: Python, Java, Javascript, Typescript, SQL, HTML, CSS
- **Technologies**: React, Nextjs, Websockets, Mongodb, Tailwind, Prisma, Node, Http, JWT, Figma, Git/Github, Bootstrap