

Andhavarapu Balu

4th year, B.Tech. Computer Science and Engineering

VIT University

+91 730 524 1123 balu.somenumbers@gmail.com

[GitHub/JustTheCoolest](#)

CGPA: 9.00

Codeforces Rating: 1500 (approx.)

ACHIEVEMENTS

1. **FOSSIT'24 Hackathon winning team** (intercollege): Git application into a different industry
2. **Paradox CTF winning team** out of around 200 individual participants (intercollege)
3. **GDSC Code Quest coding contest rank 3** out of 130 participants
4. **Byte Battles coding contest team rank 2** out of 97 individual participants
5. **Finalists at TechnoXian World Robotics Championship:** Fastest line follower contest
6. **HackerOne - Quora:** Identified a bug that compromised user privacy. Was awarded \$100 as bug bounty.
7. **Best Delegate in BVMG MUN 2021**
8. **Google Code to Learn 2016 Finalist**
9. **ASSET Talent Scholar Gold:** ASSET Talent Scholar in 2017, ASSET Talent Scholar Gold in 2018
3 times monthly topper in AQAD (ASSET Question A Day)

PROJECTS

1. **E-Resources Chrome Extension for VITC Central Library (just released):** Official Chrome extension by the library, to provide access to research papers for faculty, research scholars and students.
 - 185+ users within first 3 days of release
 - Javascript
2. **TeamBooks (in-progress):** A set of websites and apps for an NGO to conduct a physical book donation drive. Objectives: Show information to people, automate workflow for volunteers, collect data
 - Flutter, Firebase
3. **Terminal UI app for "Colour of Life" short film:** A frontend-only app that simulates interactions with an AI agent (main character) in the film.
 - Rust, Ratatui.rs
4. **Timetable to calendar converter for VIT students:** Converts timetable into calendar importable format. Enables students to coordinate with their other timetables, and to receive notifications.
 - Python, ICS files, Streamlit.py
5. **Natural Language based Image Editing software:** Using Gemini API, Streamlit, PIL
6. **GodMode browser:** Coded integrations to more providers in this open-source AI chat browser
7. **PDF Category Splitter:** GUI tool to assign tags to each page of a PDF and create new filtered PDFs by tag. Made for an NGO to split their chronological list of events into various categories like education, healthcare, etc.
 - Vibe coded

8. **Team Atom Robotics:** Coded and tested in the physical world **Arduino** embedded robots
 - Arduino C++, PID algorithm
9. **Covid Care Teens (NGO):** Helped victims of COVID-19 by making the Discord bot that accessed information from a Government website using their API, and displayed it in an interactive form to users
 - Python, TN Government's API, Discord API, async, assert
10. **SongLink Discord bot:** When a song is sent in a group chat, automatically gives other members the option to open a song in the service they like
 - Python, Discord API, SongLink API, json responses
11. **Team Atom Robotics:** Created a drone programming simulator that will help programmers get introduced to robotics
12. **Stock Analyser:** API with Flask
13. **YouTube channel:** Sharing my developing knowledge and challenging others with puzzles
<https://www.youtube.com/@baluandhavarapu>

Publications

1. **Balu, A., et al. (2025). Smart Watch based Integration System for Habituating Face Paralysis Monitoring.** Published as Use Case 25, Healthcare Category, AI for Good Innovate For Impact Report 2025 (early release) (pp. 138–141).
2. Chapter on Explainable AI in Healthcare: Almost accepted for publication

Skills

1. **Neat Coding:** Abstracting to functions, reducing redundancy, minimising coupling, structuring branches, etc.
2. **Java** | Collections framework
3. **C/C++** | unix threads and semaphores
4. **Python** | API requests, asynchronous programming and unit testing
5. **Scikit** | Currently learning in Machine Learning course in college
6. **GitHub**
7. **Linux terminal**
8. **SQL** and PL-SQL | integration of Python with MySQL and Oracle
9. **HTML, CSS, Javascript, React** | Exposed to Electron
10. **AWS** - EC2, S3, hosted Steamlit application
11. **Keras NLP** explored | Tokenizer, preprocessor, backend, compile, fit, predict, evaluate
12. **MATLAB**
13. **Verilog**
14. **Robotics:** Game development using MIT Scratch, building and coding robots (with sensors and motors) using Lego, using sensors to analyze the environment, introductory level MIT **App Inventor**
15. **Assembly:** x86, x51, ARM
16. **MS Office (and Google Workspace):** Word, PowerPoint, Forms, Excel.
17. Spoken languages: **English, Telugu, Tamil, Hindi**, intermediate **French**, basic **German**

EXPERIENCES

1. **Programming Team Lead** at Atom Robotics, VIT Chennai
2. **Technical department member** at Linux Users Group (lugvitc), VIT Chennai

3. **Projects Programmer** at Students for the Exploration and Development of Space (SEDS Antariksh chapter), VIT Chennai
4. **Web Developer** at Microsoft Innovations Club, VIT Chennai
5. **Open Source Programmer** at Google Developers Group (GDG), VIT Chennai
6. **Technical department member** at ACM student chapter, VIT Chennai

TRAINING INTERNSHIPS (EXTERNSHIPS)

1. **Generative AI Applications using Vertex AI** by Smartinternz (75 hours) and Google (75 hours) - July 2024
 - Vertex AI badge with all labs and courses completed on Google Cloud Skillboost
2. **Entrepreneurship and Skill Development with Letter of Recommendation** from internship at Mindler Education - February 2022

MORE

1. **Taught** friends and juniors dozens of times via Discord and Teams meetings
2. **Presentation** to exchange students representing Atom Robotics, at VIT Chennai
3. **Speeches** to school students via VNest outreach program, at two independent occasions