

ANGAD BHALLA

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Portfolio (anga.codes)

Education

PES University

Bachelor of Technology in Computer Science & Engineering

August 2023 – August 2027

Bangalore, Karnataka

Professional Experience

Center for Robotics, Automation and Intelligent Systems

June 2025 – July 2025

Remote Robotics Intern

Bangalore, Karnataka

- Created a Web Interface to remotely control, code & kill supported microchips (ESP32, STM32, Arduino UNO&Mega)
- Developed a scalable video streaming service to maximize video stream quality while maintaining < 300ms latency

Vanishing Inc.

November 2024 – February 2025

Web Developer

Remote

- Contracted to modernize outdated web pages by rebuilding the frontend in Next.js with React and Tailwind, adhering to codebase guidelines, and optimizing DOM structure to improve performance and user experience.

Frigga Cloud Labs Pvt. Ltd.

July 2024 – July 2024

Software Development Engineering Intern

Bangalore, Karnataka

- Engineered a layered encryption protocol requiring mutual authorization from client and company for file access or modification, ensuring security unless both parties are compromised.

StrengthScape Pvt. Ltd.

June 2023 – July 2023

Intern (Data Analytics)

Bangalore, Karnataka

- Created a BeautifulSoup-based Python scraper for 1,000+ pages and integrated Google Analytics data to visualize user engagement using Matplotlib and Plotly to optimize content strategy.

Araciv Technologies Pvt. Ltd. (Vicara)

April 2023 – May 2023

Full-Stack Web Developer (Intern)

Bangalore, Karnataka

- Developed a web platform using Python, Next.js, and SQLite to streamline interviews for thousands of student job applicants, improving hiring efficiency.

Projects

Cloud Storage Platform (AngaDrive) | Golang, SolidJS, SQL

<https://github.com/Anga205/AngaDriveV3>

- Built a high-performance cloud storage platform with real-time UI updates using WebSockets
- Production-deployed on a Raspberry Pi to showcase its lightweight design (60+ active users), outperforming upload speeds on Google Drive by 11–29% and Dropbox by 75% in performance benchmarks.

Custom Operating System (AngaOS) | x86 Assembly, C

<https://github.com/Anga205/AngaOS>

- Developed a basic OS kernel and bootloader using x86 Assembly and C, capable of booting in QEMU with manual memory management and hardware interfacing.
- Built as a learning project to deepen understanding of OS internals, CPU architecture, and bare-metal development.

High-Performance ASL interpreter | Python, OpenCV, SVM

<https://github.com/Anga205/no-lingo>

- Optimized an OpenCV-based ASL interpreter to reduce compute overhead by 60%, enabling real-time performance on resource-constrained hardware (Raspberry Pi 3).
- Awarded **First Place** at the *IEEE Kalpana 2025 Hackathon* among 50+ competing teams.

Leadership / Extracurricular

The Alcoding Club

August 2024 – April 2025

Club Head

PES University

- Hosted technical workshops on various programming essentials like containerization and competitive programming
- Designed and hosted 12+ competitive programming contests with 100+ participants each.
- Oversaw 150+ attendees & led end-to-end execution of the club's flagship annual 24hr hackathon – Terrathon 4.0, including judging, ops, and tech setup.

Technical Skills

Languages: Python, C, JavaScript (and TypeScript), Golang

Web & Frameworks: React, Solid, Node.js, Express.js, Astro, Tailwind, Django, Flask, FastAPI, Gin, Reflex

Databases: MySQL, CockroachDB, SQLite, PostgreSQL, MongoDB

Tools & Platforms: Git, Linux, REST APIs, AWS-cli, Docker, Github-Actions, Shell Scripting

AI/ML & Vectorization: RAGs, Langchain, Qdrant, Gemini API

Achievements

First Place – IEEE Hackathon: secured top position in a high-intensity 24hr innovation challenge (IEEE Kalpana 2025)

Top 3% Finalist: GitHub & Sarvam AI's 24 hour Great Bengaluru Hackathon (5000+ contestants nationwide)

Leetcode Contest Ranking: Top 2.5% global ranking on LeetCode (Knight, 2006 rating) with 410+ challenges solved.

Open Source Contributions: 900+ Contributions and 6 Badges on Github.