

ANSH VIVEK MALHOTRA

[Portfolio Webpage](#)

📍 Bengaluru, Karnataka

📞 +91 7483954676

✉ ansh.vivekyog@gmail.com

🌐 [Ansh Vivek Malhotra](#)

🔗 [ANSH](#)

Education

National Institute Of Technology Karnataka

Bachelor of Technology in Computer Science and Engineering

Mangalore, Karnataka

Nov '22 - Mar '26

Technical Skills

Programming and Languages: C/C++, Python, Dart, MySQL, LaTeX.

Frameworks and Libraries: Flutter, Nodejs, React, OpenCV, Socketio.

Tools: Postman, Firebase, Cisco Packet Tracer, GNS3, Git/GitHub, Google Colab, API Development, Grafana, Wireshark, Logisim, Jflap.

Coursework: Data Structures and Algorithms, Software Engineering, Computer Networks, Design of Digital Systems, Operating Systems, Information Security, Probability Theory, Computer Architecture, Cloud Computing, Compiler Design.

Experience

Chaitanya Projects Consultancy Limited

Frontend Development Intern — Tech Stack - React, Postman

Bangalore, Karnataka

May '25 - July '25

- Contributed to the development of an internal ERP system by implementing responsive frontend interfaces and integrating APIs.
- Utilized Postman for structured API testing, response inspection, and debugging request cycles during development.

Ergon Labs

Software Developer Intern — Tech Stack - Python, React, Firebase, MySQL, Grafana

Bangalore, Karnataka

May '25 - July '25

- Implemented federated learning models in a server-client setup, focusing on data privacy and communication efficiency.
- Applied advanced techniques like FederatedTrust to enhance security in federated learning systems.

Council of Scientific and Industrial Research-4PI(NAL)

Research Intern — Tech Stack - TensorFlow Federated, Python, OpenCV

Bangalore, Karnataka

May '24 - July '24

- Implemented federated learning models in a server-client setup, focusing on data privacy and communication efficiency.
- Applied advanced techniques like FederatedTrust to enhance security in federated learning systems.

KMC Hospital

App Team Lead — Tech Stack - Flutter, Dart

Mangalore, Karnataka

Mar '24 - July '24

- Collaborated with medical professionals to gather and analyze patient data for trend identification and reporting.
- Assisted in the development of a system for monitoring and managing patient health metrics efficiently.

Projects

Online Coding Platform | React, NextJS, TailwindCSS, Firebase

[GitHub](#)

- Designed and implemented a full-stack competitive coding platform. Enabled live contests, leader-boards, and a practice module with real-time grading and progress tracking.

Telephone Directory App | Flutter, Dart, MySQL Database

[GitHub](#)

- Implemented a user-friendly interface for National Institute of Technology Karnataka as official Telephone directory app.
- Integrated MySQL database for efficient data management and retrieval across both Android and iOS platforms.

Task Offloading Optimization in Mobile Edge Computing using DECO Algorithm | Python

[GitHub](#)

- Implemented the DECO algorithm to optimize task offloading in Mobile Edge Computing (MEC) systems.
- Handled homogeneous and heterogeneous scenarios for scalable scheduling across diverse edge servers.

Dynamic ARP Inspection | Python, Wireshark

[GitHub](#)

- Developed a prototype of Dynamic ARP Inspection (DAI) using custom scripts to validate ARP packets against predefined MAC-IP mappings, simulating mitigation of ARP spoofing attacks.
- Analyzed ARP spoofing countermeasures in constrained network environments, focusing on lightweight DAI solutions suitable for edge routers.

Leadership / Extracurricular

- President, Indian Society for Technical Education – Mentored 200+ students; prior role: Tech Secretary
- Vice President of Web Design and Public Relations at Student Energy NITK Chapter.
- Represented the CSE Department NITK at the CREST NITK Conference.
- Executive member of LSD NITK (Literary, Stage and Debating Society).