

AREESH JABBAR

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SUMMARY

Software Engineer with strong foundation in C, C++, Python, and Linux, experienced in SDK development, debugging, and system integration. Familiar with embedded systems, device drivers, and protocol software development. Skilled in data structures, algorithms, and networking fundamentals.

EDUCATION

Sir M. Visvesvaraya Institute of Technology

2021 – 2025

B.E. - Computer Science and Engineering - CGPA - 8.5

Bengaluru, Karnataka

COURSEWORK / SKILLS

- Computer Networks
- Python
- Algorithms
- Operating System
- Data Structures
- C++

INTERNSHIP

TechCompiler Data Systems pvt ltd

06 2025 – Present

Software Engineer Intern

Noida, Uttar Pradesh

- Worked as a Software Engineer Intern, contributing to both frontend and backend development with **React.js**, **Flask/Django**, and **PostgreSQL**.
- Developed features to process and visualize blueprint images, including 2D/3D renderings and extraction of structural elements using **YOLOv8** and **OpenCV**.
- Collaborated on **system integration and debugging workflows**, gaining exposure to **SDK-style development** and performance optimization.
- Worked closely with design and backend teams to ensure seamless integration, scalability, and reliability of the application.
- Followed Agile practices, participating in daily stand-ups, sprint planning, and cross-functional reviews.

PROJECTS

Networking Protocol Simulation—C++ | C++, Linux, Socket Programming, CRC, G++ JUL 2024

- **Overview:** Implemented a simplified data transmission protocol with CRC error detection and packet retransmission to ensure reliable communication.
- **Client-Server Communication:** Developed client and server modules using Linux sockets (TCP/UDP) for simulating data transfer.
- **Testing:** Evaluated protocol performance under packet loss, delay, and throughput variations.
- **Debugging:** Used GDB and Valgrind for debugging, runtime checks, and memory leak detection; optionally analyzed packet flow with Wireshark.

Task Manager Web App | Django, Django REST Framework, PostgreSQL, HTML, CSS, Git Sep 2024

- **Overview:** Developed a full-stack web application to manage tasks with role-based user authentication and CRUD operations.
- **Backend Development:** Implemented RESTful APIs using Django REST Framework for task creation, assignment, and status updates.
- **Database Design:** Created normalized schemas in PostgreSQL, optimized queries with indexing, and ensured data consistency.
- **Frontend UI:** Integrated Django templates with HTML/CSS to provide a clean and responsive user interface.
- **Reporting:** Implemented CSV/PDF export functionality to generate task and resource usage reports.

TECHNICAL SKILLS

Languages: Python, C++, HTML, CSS, JavaScript, Reactjs,

Systems: Linux, RTOS (familiar), Embedded Systems

Tools: GDB, Valgrind, Git, PostgreSQL

Skills: SDK Development, Device Driver (familiar), Protocol Software Design, Algorithms, Data Structures

Networking (familiar): Gigabit Ethernet (GIGE), Optical Transport Network (OTN), DSP