

Amrit TR

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Skills

- **Languages:** C, C++, Java, Python, JavaScript, TypeScript
- **Frameworks:** React.js, Node.js, Express, Electron.js, Pandas, NumPy, Matplotlib, Seaborn
- **Tools/Platforms:** Firebase, Git and GitHub, Docker, SQLite, Power BI, Excel, VS Code, Ubuntu
- **Professional Skills:** Data Analysis, API Integration, Real-Time Application Development, Dashboard Development
- **Soft Skills:** Teamwork and Collaboration, Problem Solving, Creativity, Decision-Making

Training

DSA Placement Bootcamp - Lovely Professional University

June 26 - July 26

Placement Training Programme

Strengthened problem-solving ability through intensive training in Data Structures and Algorithms, with a focus on efficient and optimised solutions.

Practised core DSA concepts and algorithmic techniques aimed at coding assessments, technical interviews, and industry-level challenges.

Built a stronger foundation in algorithmic thinking, logical reasoning, and writing efficient code. • **Focus areas:** Data Structures, Algorithms, Time and Space Complexity, Competitive Problem Solving

Projects

• Tank Management System - Fleet Management Desktop Application:

August 2026

Built a centralised desktop application to manage and monitor Indian Army tank fleets from a single interface. Automated maintenance workflows by tracking engine specifications, computing service schedules, and enabling rapid fleet-wide search.

Improved fleet data organisation through offline-first storage and one-click Excel and PDF report generation.

Recognised with a Letter of Appreciation from the Indian Army for the operational impact of the system.

Tech: Electron.js, JavaScript, HTML, CSS, SQLite, SheetJS

• MediQueue-AI - Intelligent Patient Queue Management System:

June 2026

Engineered an intelligent patient queue management system to improve hospital workflow and reduce patient waiting time.

Implemented custom DSA-based queue structures with role-based portals for patients, doctors, receptionists, and administrators.

Enabled real-time queue tracking, appointment management, and emergency triage to streamline patient flow.

Tech: JavaScript, HTML, CSS, Firebase Authentication, Realtime Database, Data Structures and Algorithms

• ESP Flashing Tool - Browser-Based Firmware Flasher:

April 2026

Designed a browser-based platform that simplifies firmware flashing for ESP32 and ESP8266 devices.

Integrated the Web Serial API and esptool.js to support chip detection, multi-binary flashing, and UART monitoring.

Enabled users to flash firmware directly from the browser, supported by role-based cloud management.

Tech: React.js, TypeScript, Vite, Tailwind CSS, Web Serial API, Firebase, esptool.js

Certificates

- Java Programming by Lovely Professional University. | [Certificates](#)

Janu 2026 - May 2026

- AI and Data Scientist by Oneroadmap. | [Certificates](#)

May 2025

- Google Analytics by Google. | [Certificates](#)

May 2025

Achievements

- **Founding Member and CTO of Arena Club:** June 2026 - Present Leading the technical vision, project portfolio, and engineering team of the club.
- **Letter of Appreciation from the Indian Army:** August 2026 Awarded for developing the Tank Management System, which enhanced armoured vehicle data management and operational efficiency.

Education

Lovely Professional University

Phagwara, Punjab, India *Bachelor of Technology - Computer Science and Engineering; CGPA: 7.15*

Since August 2024

Partap World School

Pathankot, Punjab *Intermediate; Percentage: 70.0%*

April 2022 - March 2024

