

# IRFAN BASHA L

Software Engineer | Full-Stack Developer | Data & AI Engineer

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## Professional Summary

Aspiring Software Engineer specializing in full-stack development, data-driven systems, and ML-powered web applications. Experienced in building scalable products showcased through an active portfolio of deployed projects. Strong foundation in Python, JavaScript, PHP, MySQL, ML pipelines, and Flask-based backend development. Demonstrates leadership, problem-solving, rapid prototyping, and system design skills through hackathons, TECH EXPOs, and a learning internship at Bharat Electronics Limited. Passionate about combining intuitive UI/UX with high-performance backend logic to build impactful solutions.

## Technical Skills

<b>Languages:</b>	Python, Java, C, C++, JavaScript, SQL
<b>Web Development:</b>	HTML, CSS, JavaScript, Bootstrap, PHP, Flask, Jinja2
<b>Databases:</b>	MySQL, SQLite
<b>Data &amp; ML:</b>	Pandas, NumPy, Matplotlib, scikit-learn
<b>Tools:</b>	Git, GitHub, XAMPP, phpMyAdmin, VS Code, Figma, Linux
<b>Soft Skills:</b>	Leadership, Public Speaking, Analytical Thinking, Team Collaboration

## Internship Experience

### Learning Internship — Bharat Electronics Limited (BEL)

July 2025

#### *Full-Stack Developer Intern*

Built and deployed a production-ready Predictive Maintenance System integrating real-time ML models with a dynamic frontend.

- Developed a Flask-based backend serving ML-powered live failure predictions via structured REST endpoints.
- Implemented responsive UI templates using HTML, CSS, JavaScript, and Jinja2 for dynamic content rendering.
- Architected end-to-end workflow from data ingestion, preprocessing, model inference to visualization and logging.
- Open-sourced the project for community access and reproducibility, with documentation for setup and model usage.
- Strengthened skills in ML deployment, API design, and full-stack engineering practices.

## Projects

### Personal Portfolio Website

*HTML, CSS, JavaScript*

A fully responsive and visually structured portfolio showcasing academic journey, professional skills, certifications, and major projects.

- Implemented smooth interactions, modular sections, and optimized layouts for mobile and desktop.
- Centralized project documentation, links to repos, and contact methods for recruiters.

### Predictive Maintenance System — Full Stack Web App with ML Integration

*Flask, Jinja2, Python, HTML/CSS/JS*

A production-oriented predictive maintenance tool capable of forecasting equipment failures using machine learning models.

- Integrated ML models with a Flask backend to serve real-time predictions and expose REST endpoints for front-end consumption.
- Designed UI components to visualize predictions, historical trends, and alerting mechanisms for maintenance teams.
- Built reusable ML pipelines for preprocessing, model loading, and inference to enable quick model updates.
- Documented deployment steps and provided an open-source repository for community learning.

### Flight Management System

*PHP, MySQL, Bootstrap*

A web application to streamline airline reservation operations with a relational database backend and server-side scripting.

- Designed relational schema covering Tickets, Bookings, Passengers, Flights, and Payments.
- Implemented backend logic in PHP, connected to MySQL via phpMyAdmin, enabling CRUD operations and transactional flows.
- Created responsive front-end views using Bootstrap for booking, cancellation, and admin management workflows.
- Utilized XAMPP for local development and testing of the full stack.

## Education

### B.Tech in Computer Science Engineering (Data Science)

2023–2027

Presidency University

Current CGPA: 9.2 (Maintaining >9)

### PUC — Science (PCMCS)

MES MPL Sastry PU College

Percentage: 92%

### SSLC

Sri Aurobindo Vidya Mandir

Percentage: 84%

## Certifications

- Internship Certificate, Bharat Electronics Limited — Issued Jul 2025     *Skills: Web Development, Flask, Jinja, Full-Stack*
- Accenture UK — Developer & Technology (Forage) — Issued Jun 2025
- Deloitte Australia — Cyber Job Simulation (Forage) — Issued Jun 2025
- Data Programming — Sololearn — Issued Apr 2025     *Skills: Data Analysis, Python, SQL*
- Python Developer — Sololearn — Issued Apr 2025
- Java Intermediate (Jaya Intermediate) — Sololearn — Issued Sep 2024

## Achievements

- Presented **Cash Detection Machine with Digital Wallet** at Innovative Projects EXPO, selected Top 70 among 470+ Arduino projects.
- Team **InternSaathi** secured Rank 1 (Internal) — Smart India Hackathon (SIH255) at Presidency University Bangalore.
- Team **RouteSaathi** shortlisted Top 25 ideas in India (out of 272 submissions) for MInT-ATHON 2025 under IIT Madras ecosystem.
- Winner — Personality Contest; Winner — Solo Dance Competition; Winner — Debate Competition (Team).

## References

Available upon request.