B KIRAN

Aspiring Java Developer and Software Engineering enthusiast with hands-on experience in Java and modern web technologies. Successfully completed internships in software development and innovation, Worked as a Software Development Intern within the Computers and Information Group at ISRO-URSC. Experienced in validating complex systems—from testing UI components and validating API endpoints to ensuring backend data flow and responsive web design.

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SKILLS

- **Programming Languages**
  - Java
  - SQL
- **Web Development**
  - HTML
  - MySQL
  - CSS
  - JSP
  - JavaScript
  - Firebase
  - React.js
  - Tailwind CSS
- **Backend Technologies**
  - RESTful API Design
  - Servlets
- **Version Control & Deployment**
  - Git & GitHub
  - Hostinger, cPanel/FTP
  - REST APIs
- **Project Tools & Methodologies**
  - Project Management
  - Research
  - Presentation
- **Domains & Platforms**
  - Responsive Web Design
  - RealTimeSystems
  - HealthcareWebsites
- **Soft Skills**
  - Communication
  - Teamwork
  - Creativity
  - Collaboration
  - Analytical

EDUCATION

B.E Computer Science & Engineering
Govt. Engneering College Talakal, KA
Visveswaraya Technological University, Belagavi | **December 2021 - July 2025**
CGPA - 7.78

Class 12 (Science) ~ 2021
Govt. NMM PU College, Kurugodu
71.33 %

Class 10 - SSLC ~ 2019
Government High School, Kallukamba
77.12 %

WORK EXPERIENCE

Intern - Software Development
U R Rao Satellite Centre, ISRO – Bengaluru | Aug 2025 – Sep 2025

- I recently completed as a Software Development Intern within the Computers and Information Group at ISRO-URSC.
- Assigned to develop the **official website and supporting software** for the Human Rating Certification department, a critical component of India's manned spaceflight program **(Gaganyaan)**.
- Collaborating with the development team to design, build, and deploy a secure, user-friendly website and internal software tools..
- Responsible for aligning the project with ISRO's official development protocols, security standards, and mission objectives.

Technologies: Software Development, Web Development HTML5, CSS3, JavaScript (ES6), AJAX (Fetch API), Java Backend Frameworks **(Servlets, RESTFull API's)** Database Management (MYSQL), Apache Tomcat.

Student Intern - Java Full Stack Development
JSpiders Inc. | Feb 2025 – May 2025

- Developed a complete Employee Management System web application.
- Implemented frontend using HTML, CSS, JavaScript, and backend using Java, PHP, and SQL.
- Gained hands-on experience in Java Full Stack Development and project architecture design.
- Collaborated in a guided training environment with real-world project deployment scenarios.

Technologies: Java Full Stack, HTML, CSS, JavaScript, Java, PHP, SQL, Web Application, Employee Management System, MVC, Full Stack Development

Student Intern - Full Stack Web Development
Compsoft Technologies | Oct 2022 – Nov 2022

- Contributed to the development of "Quora for Engineers", a Q&A-style platform tailored for engineering students.
- Gained practical experience in web design, database management, and project lifecycle handling.
- Assisted in building and testing UI components and managing data flow between frontend and backend systems.

Technologies: Web Development, Web Design, Project Management, Database Management, Full Stack Intern.

Student Intern - Innovation & Entrepreneurship
ParvaM ConsulTech Pvt. Ltd. | Oct 2023 – Nov 2023

- Contributed to the business model development of "Nutri Figs", an agri-tech startup idea integrating IoT and Machine Learning.
- Conducted extensive market research, analysis, and delivered presentations as part of the innovation lifecycle.
- Collaborated with multidisciplinary teams for ideation and pitch preparation.

CERTIFICATIONS

🪪 Certificate of Merit – Space Science and Technology Awareness Training (START)
ISRO | April 24 – May 10, 2024
- Awarded Certificate of Merit for outstanding academic performance (A+ grade, 88%) in the START course on "Exploration of the Solar System", organized by ISRO.

📄 AI/ML for Geodata Analysis
IIRS, ISRO | August 19 – August 23, 2024
- Completed a hands-on online course on applying Artificial Intelligence and Machine Learning techniques to Geospatial Data Analysis, organized by the Indian Institute of Remote Sensing (IIRS), ISRO.

🪪 Overview of Global Navigation Satellite System (GNSS)
IIRS, ISRO – Dehradun
- Successfully completed a certified course covering GNSS principles, applications, and advancements in satellite-based navigation systems.

HACKATHONS

- **Bhartiya Antariksh Hackathon 2024 – ISRO x Hack2Skill**

Problem Statement: Identification of Safe Navigation Routes on the Moon Using Chandrayaan Images

Proposed Solution: Designed a framework for Landing Site Analysis, Safe Navigation Path Mapping, Scientific Stop Selection, and Sunlight Optimization based on lunar imagery.

- **SPACE INDIA HACKATHON – IISF 2023**

Problem Statement: Framework Model for Identifying, Detecting, and Reporting Cybersecurity Threats on the Bhuvan Portal
Contribution: Participated in conceptualizing a secure system architecture to monitor and flag anomalies on ISRO's geospatial portal.

PROJECTS

🖥️ Android-Controlled Autonomous Rover (Final Year Project)
Recognized and Funded by Karnataka State Council for Science and Technology (KSCST) under the Student Project Program (SPP)
- Engineered a 6-wheel autonomous rover with dual L298N motor control, supporting both manual and autonomous navigation modes via a custom Android application.
- Implemented real-time video streaming using ESP32-CAM and Raspberry Pi Camera for enhanced visual feedback and remote monitoring.
- Integrated obstacle detection and avoidance using ultrasonic and infrared (IR) sensors for safe autonomous movement.
- Built Firebase integration for real-time synchronization of commands and sensor data between Android app and hardware modules.
- Developed smart crop monitoring capabilities using DHT22, soil moisture, and rain sensors for agricultural use cases.
- Combined multiple hardware platforms including Arduino, NodeMCU (ESP8266), with Android Studio and Firebase for a robust, IoT-enabled system.

Technologies: Arduino, NodeMCU (ESP8266), Firebase Realtime Database, Android Studio (Java/XML), Python, OpenCV, C++, ESP32-CAM, DHT22, Ultrasonic & IR Sensors, Soil Moisture Sensor, Servo Motor

🖥️ Automated Real-Time Facial Recognition Attendance System (June 2024)
- Developed an automated attendance system leveraging real-time facial recognition to streamline attendance tracking processes.
- Captured live video feed using a webcam, performed face detection and recognition, and logged attendance data into a timestamped CSV file.
- Utilized Python for scripting, OpenCV for image processing, scikit-learn for face recognition, and additional libraries including Pillow and win32com for auxiliary features.
- Ensured system accuracy, real-time performance, and compatibility with standard desktop environments.

Technologies: Python, OpenCV, scikit-learn, CSV, Pillow, win32com

🖥️ MediComforts Healthcare Website (Freelance Student Project, Sept 2024)
Client: RKR MediComforts (Live Project)
- Designed and developed a professional, responsive business website for a medical supplies company, showcasing product offerings, company profile, and contact details.
- Built a user-friendly homepage and product listing for surgical drape packs, gowns, and wraps.
- Implemented a contact form with PHP backend for email delivery and MySQL integration.
- Ensured modern, mobile-friendly layout with SEO-optimized URLs and metadata, and deployed securely over HTTPS.
- Managed hosting and domain setup via Hostinger and cPanel/FTP.
- Followed industry best practices in responsive design, secure hosting, and basic SEO.

Technologies: HTML5, CSS3, JavaScript, PHP, MySQL, Hostinger hosting, cPanel/FTP, Google Fonts/Icons

🖥️ ISRO Information Hub –
A Modern SpaceX-Inspired Web Application (July 2024)
- Designed and developed a responsive, visually appealing web application presenting comprehensive information about ISRO, inspired by SpaceX's modern UI/UX design principles.
- Implemented structured content categories, ensuring easy navigation and user engagement.