

RAVITEJ ARJUN KAKHANDAKI

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OBJECTIVE

Motivated and detail-oriented Computer Science graduate with hands-on experience in front-end development and IoT systems. Proficient in creating responsive websites, deploying real-time applications, and integrating databases. Strong collaboration skills, quick to learn new technologies, and passionate about building scalable, user-centric solutions.

SKILLS

Languages: C, Java, Python, HTML, CSS, JavaScript

Frameworks/Libraries: React.js, Bootstrap

Tools & Platforms: Git, GitHub, Vercel, Firebase, VS Code

Databases: MySQL

EDUCATION

- **Bachelor of Engineering (B.E) - Computer Science & Engineering**
K.S. Institute of Technology, VTU — 83.4% 2021-2025
- **Class XII**
Padmavati Science PU College, Hosur-Rabkavi — 82.16% 2020
- **Class X (CBSE)**
Royal Palace School, Jamkhandi, Bagalkot — 80.33% 2018

INTERNSHIPS

- **Front-End Developer** - National Institute of Mental Health and Neuro Sciences (NIMHANS)
Sep 2024 - Dec 2024
 - Designed and Developed key static web pages.
 - Focused on responsive UI/UX for a user-friendly experience.
- **Front-End Developer** - XCEL Corp
Jun 2024 - Jul 2024
 - Built responsive web pages using HTML, CSS, JavaScript, Bootstrap, React.js.
 - Collaborated with design teams to optimize UX and improve responsiveness.
- **Embedded Systems & IoT Engineer** - Take It Smart Pvt Ltd
Oct 2023 - Nov 2023
 - Implemented IoT systems using ESP32, C, and Python.
 - Integrated real-time sensor data to enable automation solutions.

PROJECTS

Enhanced Document Security Using Biometric Watermarking and Machine Learning (Feb–Apr 2025)

Tech Stack: Python, OpenCV, DWT, SVD, XOR Encryption, Daughman's Iris Model

Developed a secure, decentralized biometric authentication system that embeds encrypted fingerprint data into iris images using zero-bit watermarking and machine learning. This innovation eliminates the need for centralized biometric storage, ensuring tamper-proof and distortion-free verification. Achieved TRL 4 validation and presented at an international conference.

Key Highlights:

- Real-world solution to biometric data theft
- Dual biometrics: Iris + Fingerprint
- Patentable innovation with academic validation
- Combines advanced image processing and ML

Medical Device Adverse Event Reporting Portal (Sep–Dec 2024)

Tech Stack: HTML, CSS, JavaScript, React.js, Next.js

Contributed to a real-world healthcare compliance system at NIMHANS by designing responsive static pages for a medical device issue reporting portal. Ensured accessibility and reliability in line with public health data systems and regulatory requirements.

Key Highlights:

- Designed responsive interfaces using React and Next.js
- Contributed to compliance via secure issue reporting portal
- Applied UI/UX best practices in a healthcare environment

Underpass Management System (Apr–Jun 2024)

Tech Stack: ESP32, IR Sensors, Water Level Sensors, Python, C, Firebase, MIT App Inventor, HTML/CSS/JS

Built an IoT-powered real-time traffic safety system to prevent underpass flooding. Integrated sensors to monitor water levels and detect vehicles, and automated gate controls via Firebase. Developed a web dashboard to visualize sensor readings and gate status live.

Key Highlights:

- Designed a live monitoring dashboard for vehicle and water-level data
- Automated floodgate control using Firebase real-time triggers
- Combined sensors and ESP32 with web dashboard for smart infrastructure

Agronomix – Precision Agriculture Platform (Sep–Oct 2023)

Tech Stack: MySQL, PHP, HTML/CSS/JavaScript

Designed and deployed a data-driven platform to help farmers monitor and manage agricultural records. Enabled real-time visualization of farming parameters and supported precision agriculture decisions through structured database integration.

Key Highlights:

- Built MySQL-backed system for structured farm data management
- Developed frontend to visualize sensor and crop data in real time
- Promoted digitization in agriculture and rural data technology

CERTIFICATIONS

- AI For India 2.0 - GUVI, Skill India Digital (2024)
- Skill Contest - Naukri Campus Young Turks (2024)
- Internet of Things (IoT) - The Digital Adda (2023)
- Aptitude & Soft Skills - K.S. Institute of Technology (2023)
- Data Science Hackathon - IIT Kharagpur (2025)
- Front-End Development - XCEL Corp (2024)

PUBLISHED

Enhanced Document Security through Biometric Watermarking and Machine Learning
International Journal of Creative Research Thoughts (IJCRT) , Jul 17, 2025.

LANGUAGES

English, Kannada (Native), Hindi

HOBBIES AND INTERESTS

Travelling, Cricket, Swimming