

# Sahil Bharat Arate

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## Skills

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**Languages:** Python, C, Go    **Frameworks:** React, Node.js, Express, RESTful APIs, JWT Authentication, Server-side Logic

**Databases:** MongoDB, MySQL, SQL, NoSQL, Database Query Optimization    **Tools:** Git, Docker, Jira, Power BI

**Practices:** Agile (Scrum), SDLC, Code Reviews, Clean & Documented Code, OOP Design Principles

**Security:** AWS (EC2, S3, IAM), Azure, Cloud Security, Data Protection & Encryption

**Core CS:** Data Structures & Algorithms, OOP, Operating Systems, DBMS, Computer Networks

## Education

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### KLS Gogte Institute of Technology

B.E. in Computer Science and Engineering

*Belagavi, Karnataka*

### Jain Polytechnic College

Diploma in Computer Science and Engineering

*Belagavi, Karnataka*

### Gomatesh High School

High School

*Belagavi, Karnataka*

## Projects

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### 1. Micro-Funding Web Platform

*Full-Stack Fintech-Style Web Application*

- Architected and developed a production-grade crowdfunding platform with scalable **RESTful APIs** built on **Node.js**, **Express**, and **MongoDB**; implemented **JWT-based secure authentication**, investment tracking workflows, and real-time analytics dashboards — directly mirroring backend responsibilities in fintech systems handling critical financial operations.
- Wrote clean, well-documented code following established engineering standards; integrated third-party services, optimized database queries for performance, and maintained system reliability across the full SDLC with Git-based version control and Agile sprint workflows.
- **Technologies:** Node.js, Express, MongoDB, RESTful APIs, JWT Authentication, React, Data Visualization Libraries.

### 2. Fetal Monitoring System using IoT

*Embedded System & Mobile Application*

- Built a secure, real-time backend data pipeline using **Node.js** and **Firebase** to handle continuous IoT sensor streams; designed server-side logic for data ingestion, processing, and API delivery to the React Native frontend — demonstrating backend architecture skills in a live, data-intensive system. **Research paper published.**
- **Technologies:** Node.js, Firebase, React Native, ESP8266, MPU6050, IoT Protocols, Real-time Data Visualization.

## Internship Experience

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### Prodigy Infotech

*Web Development Intern*

- Developed and maintained backend-integrated web applications using Node.js and Java; built and consumed RESTful APIs with robust input validation, error handling, and well-documented code following established engineering standards.
- Participated in code reviews, debugging sessions, and performance optimization; collaborated cross-functionally with frontend developers, product, and QA teams in an Agile (Scrum) environment using Git and Jira.

### Eyesec Cyber Security Solutions Pvt. Ltd.

*Cloud Security Intern*

- Applied security best practices across AWS and Azure infrastructure — including **data encryption**, **IAM access controls**, and **secure API configurations** — directly relevant to compliance-driven, security-conscious fintech backend systems handling sensitive financial data.
- Automated audit workflows using Python scripting; documented technical findings and communicated remediation strategies to senior engineers, demonstrating strong problem-solving and remote team collaboration skills.

## Awards and Achievements

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- Won **1st Prize** at **National Level IoT Hackathon**, Tontadarya College of Engineering, Gadag — rapidly engineered a full backend system for an RFID-based attendance platform, demonstrating ability to build reliable, scalable systems under pressure.
- Received **Best Final Year Project Award** in the Computer Science Department for outstanding innovation and implementation.
- Completed training workshops on **ESP32 & IoT Development** and **Prompt Engineering & AI**.