

SATHISHKUMAR R

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EDUCATION

Shiv Nadar University Chennai

B.Tech Computer Science and Engineering (IoT)

Expected June 2025

CGPA: 8.63/10.0

Relevant Coursework: Data Structures & Algorithms, Database Management Systems, Computer Networks, Operating Systems, Artificial Intelligence, Machine Learning, Distributed Computing, Web Technologies, IoT Architecture & Protocols.

PROFESSIONAL EXPERIENCE

Tata Consultancy Services (TCS)

IoT Engineer Intern

May 2024 – July 2024

Chennai, India

- Developed strategic models for IoT integration, improving data collection methods to enhance production efficiency by 30%.
- Conducted in-depth analysis of case studies on pharmaceutical and automobile manufacturing, identifying process optimization techniques that improved efficiency and quality control measures.
- Collaborated with cross-functional teams to develop and implement IoT integration strategies aligned with business objectives and industry standards.

AppLever Tech

Software Developer Intern

Dec 2023 – Jan 2024

Hydrid, Bangalore, India

- Developed Flutter mobile application integrating Google Maps API, reducing event registration time by 40%.
- Implemented Firebase backend for real-time data synchronization across platforms with 100% reliability.
- Optimized development workflow through Git/GitHub version control and CI/CD practices.

ISRO Propulsion Research Complex (IPRC)

In-Plant Trainee

June 2023 – July 2023

Mahendragiri, India

- Gained practical experience in enterprise-level network configurations, including VLANs, firewalls, and mail servers in high-security aerospace environments.

PROJECTS

General Purpose Discord Bot | Python, JSON, Flask, MongoDB(Atlas), Heroku, Discord.py

- Developed a multi-functional Discord bot serving over 6,000+ members across 20+ servers, featuring interactive games, a virtual currency system, and customizable utilities.
- Facilitated rapid bot development for hackathons by providing starter code, enabling organizers to ideate and deploy projects efficiently.

ChatShuffle | Reactjs (Remix), Javascript, HTML, CSS, Firebase, Google cloud functions and Authentication

- Functions similarly to Omegle, enabling users to engage in anonymous one-to-one text conversations. The app allows users to instantly pair with a random individual and chat in real-time, providing a simple and seamless anonymous communication experience.

Mobile Apps | Flutter, Dart, Android Studio, Firebase, MQTT, Google Maps API, Google Cloud Console

- Air Sense:** Created a scalable real-time air quality monitoring system with personalized recommendations and gamified incentives, leading to a 62% increase in user engagement.
- SecureWare:** Designed and implemented a Warehouse Intrusion Detection System, improving security response time by 40% through real-time alerts and remote notifications.

Data Science and Machine Learning | Tableau, Python, Jupyter Lab, Flask, Firebase, Machine Learning

- Nutri Track:** Developed a Flutter-based application for tracking diet and water intake, utilizing machine learning for personalized diet recommendations and Firebase for data management.
- Implemented MVVM architecture, featuring meal logging, hydration tracking, and smart diet suggestions based on user activity and goals.

TECHNICAL SKILLS

Programming Languages: Python, JavaScript, Java, C, Dart, HTML/CSS, SQL

Frameworks & Libraries: React.js, Node.js, Express.js, Flutter, TensorFlow, Flask

Cloud & Databases: Firebase, MongoDB, Google Cloud Platform, AWS, MySQL

Developer Tools: Git, GitHub, Docker, VS Code, Android Studio, Figma, Postman