

# BALAGURUBARAN KUMARESAN

## Full Stack Web Developer

Vedaranyam, Tamilnadu | balagurubaran2002@gmail.com | +91 9677822740 | [Github](#)

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### PROFESSIONAL SUMMARY

Full Stack Web Developer with hands-on experience building scalable web applications and RESTful APIs using React, Flask, and PostgreSQL. Interned at Tata Technologies, contributing to a Digital Twin platform for lithium-ion battery manufacturing. Strong in authentication, data visualization, and analytics-driven systems.

### EDUCATION

#### Master of Computer Applications

Oct 2023 - Aug 2025

Thanthai Periyar Govt. Institute of Technology, Vellore

Concluded with the CGPA of 8.57

### PROFESSIONAL EXPERIENCE

#### Internship - Full Stack Web Developer

Feb 2025 - Jun 2025

Tata Technologies, Bangalore

- Developed a web-based Digital Twin platform supporting battery manufacturing analytics.
- Built RESTful APIs to process viscosity and process parameters.
- Improving data accessibility for analytics dashboards.
- Designed interactive dashboards with charts for real-time insights into manufacturing conditions.
- Implemented JWT-based role authorization, securing multi-user access.

### PERSONAL PROJECTS

#### Siffs Management

Dec 2025 - Present

- As a personal project, developing a system for managing and maintaining the entities of [siffs](#) (in our native) which includes employees, members, accounts and products (sea foods). Uses JWT for role based access.

Tech Used: React.js, Python(Flask), PostgreSQL, Zustand, Cloudinary, JWT, SQLAlchemy.

#### Broadcasting Blog Application

Nov 2024 - Jan 2025

- Developed a broadcasting blog app, which enables sharing information in form of text and images. Uses Firebase OAuth2 for authentication and JWT for role based access.

Tech Used: React.js, Node.js, MongoDB Atlas, Redux, Firebase, Flowbite, Cloudinary, JWT.

### SKILLS

**Languages:** Javascript, Typescript, Python, C++, Java.

**Frameworks:** React.js, Express.js, Flask.

**Databases/ORMs:** MySQL, PostgreSQL, MongoDB, Mongoose, SQLAlchemy.

**Tools:** VS code, Postman, Git, Windows, Linux.

**State/Auth:** JWT, Redux, Zustand, Firebase.