

SUDHARSON BALAMURUGAN

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PROFESSIONAL SUMMARY

Python Full Stack Developer with expertise in Django, Django REST Framework, React.js, PostgreSQL, and AWS. Skilled in REST API development, JWT authentication, database design, and performance optimization. Proven track record building scalable web applications in Agile environments.

TECHNICAL SKILLS

Languages: Python, JavaScript (ES6+), SQL, HTML5, CSS3

Backend: Django, Django REST Framework, Flask, REST APIs, RESTful Web Services, JWT, ORM, MVC/MVT

Frontend: React.js, Bootstrap, Responsive Web Design

Databases: Oracle SQL, PostgreSQL (ORM), MySQL (ORM), SQLite (ORM) - Database Design, Joins, Indexing

Cloud/Tools: AWS (EC2, IAM, VPC, RDS, S3 - Basic), Git, GitHub, Postman, Jira

Concepts: OOP, Data Structures (Linear), Async/Await, Agile Methodology, API Integration, Web Development

INTERNSHIP

QSpiders – Python Full Stack Development Intern

Mar 2025 – Jan 2026

- Developed 5+ full stack web applications using Python, Django, Flask, React.js with MVC architecture and Agile methodology.
- Designed 15+ secure RESTful APIs with JWT authentication, role-based access control, and database schemas using Django ORM and PostgreSQL.
- Integrated frontend React components with backend Django services and utilized Git/GitHub for version control.

TCS iON – Machine Learning Intern

Mar 2023 – Mar 2024

- Developed ML models with data preprocessing, feature engineering, and evaluation on 50,000+ record datasets.
- Implemented regression and classification algorithms achieving high accuracy through hyperparameter tuning and cross-validation.

TECHNICAL PROJECT EXPERIENCE

Conversational AI Chat Application

2025

- Built a full stack chat application using Django REST Framework and React.js with JWT-based authentication and Google Gemini API.
- Implemented RESTful APIs for user authentication, chat management, and message handling using Django ORM.

Django Blog Platform

2025

- Built blog application using Django, SQLite, Bootstrap with post management, SEO-friendly slugs, and pagination.
- Implemented user authentication and authorization with CRUD permissions for posts and comments.

Weather API Application

2025

- Developed a Django REST Framework application to fetch real-time weather data using external REST APIs with location-based search.
- Implemented API integration, JSON data parsing, and robust error handling for invalid inputs and API failures.

EDUCATION

Bachelor of Engineering in Electronics and Communication Engineering

2021 – 2025

Government College of Engineering, Salem

CGPA: 7.82 / 10

CERTIFICATIONS

Machine Learning (TCS iON) — Python Full Stack (QSpiders) — Full Stack (Novitech) — SQL to Oracle (Udemy) — Django (Simplilearn) — Python development (skillupgrade) — React (Scaler) — Frontend (Udemy) — JavaScript (Code Easy) — Software Engineering (IBM) — Network Essentials (Cisco) — Python (Infosys) — AI for Everyone (Guvi) — Python Libraries (letsupgrade) — SQL (WsCube Tech)