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, Redux Toolkit, React Query, 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), Git, GitHub, Postman, Jira, VS Code
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 AI-powered chat application using Django REST Framework, React.js, PostgreSQL with JWT authentication and Google Gemini API for intelligent conversations.
- Designed RESTful APIs for user management and chat operations with optimized PostgreSQL queries.

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 and display real-time weather data using external weather APIs.
- Implemented API integration, data parsing, and robust error handling for invalid locations and API failures.
- Built a clean, responsive frontend with location-based search functionality to enhance user experience.

EDUCATION

Bachelor of Engineering in Electronics and Communication Engineering   2021 – 2025
Government College of Engineering, Salem   CGPA: 7.98 / 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)