

# 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.

### Professional Portfolio Website

2025

- Developed responsive portfolio website using Django with models, views, templates, URL routing, and static file handling.
- Implemented contact form with backend validation and email notification improving user engagement and recruiter reach.

## 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)