# Sooraj Parakkattil Ravi

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## PROFESSIONAL SUMMARY

Experienced software engineer with over 5 years of expertise in backend development and system optimization, specializing in Python and Django frameworks. Proven track record in developing cloud-based services, optimizing database performance, and delivering high-quality software products at scale. Strong technical leadership background with experience mentoring junior team members and collaborating across diverse stakeholders to translate business requirements into effective technical solutions.

## TECHNICAL SKILLS

**Languages:** Python (5+ years), JavaScript, SQL, TypeScript  
**Backend:** Django, Django REST Framework, Flask, FastAPI, RESTful APIs, GraphQL, Microservices  
**Databases:** PostgreSQL, MySQL, Redis, MongoDB, ElasticSearch, Database optimization  
**Cloud & Infrastructure:** AWS (Certified Solutions Architect), GCP, Docker, Kubernetes, Terraform  
**DevOps & CI/CD:** Jenkins, GitHub Actions, CircleCI, Continuous Integration/Deployment pipelines  
**Testing & Quality:** Unit testing, Integration testing, E2E testing, Pytest, Test-driven development  
**Tools & Frameworks:** Celery, RabbitMQ, Kafka, Selenium, Git, Linux/Unix  
**Frontend Exposure:** Vue.js, Nuxt.js, HTML, CSS, Tailwind  
**Data & Analytics:** PostgreSQL optimization, Data pipelines, AWS QuickSight, ETL processes

## PROFESSIONAL EXPERIENCE

### OBSO AUTOMATION, Stafford, UK

#### **Senior Software Engineer** | September 2022 - Present

* Architected and led migration from **monolithic** legacy CRM to microservices architecture, enabling **horizontal scaling** and improving system **reliability with 99.95%** **uptime**
* Designed **RESTful** APIs with Django REST Framework that handle **1M+ daily requests** with average **response time <100ms**, supporting real-time data flows across multiple platforms
* Engineered high-performance data processing pipeline processing 50+ supplier integrations, **optimizing database queries** to reduce response time by **90%**
* Implemented robust CI/CD pipeline with automated testing, reducing deployment issues by **75%** and enabling **3x** more frequent releases
* Built scalable backend for quoting platform with **Redis** caching layer, achieving sub-2-minute response time for complex multi-supplier quotes
* Optimized **PostgreSQL** database operations resulting in 10X performance improvement through **indexing** strategies, **query optimization**, and database sharding
* Led weekly code reviews and mentored 3 junior engineers, establishing engineering best practices and test-driven development methodology

#### **Software Engineering Intern** | December 2021 - September 2022

* Developed RESTful API endpoints using Django REST Framework under senior engineer mentorship
* Designed and implemented 8 new backend features with 89% positive user feedback
* Created comprehensive **unit and integration test suites**, achieving 85% code coverage

### CIED TECHNOLOGIES, Kerala, INDIA

#### **Backend Engineer** | June 2018 - June 2021

* Designed and implemented horizontally scalable **Django/PostgreSQL backend** system supporting **10,000+ concurrent users** across agricultural **sustainability** applications
* Engineered **ML-driven** routing service with custom Django middleware and optimized algorithms, achieving 10x performance improvement and **60% reduction in API costs**
* Architected multi-cloud backend infrastructure across **AWS**, Azure, and Digital Ocean with automated failover, ensuring 99.9% availability for data-intensive applications
* Implemented **Celery** task queue system for asynchronous processing of large datasets, reducing processing time by 75%
* Designed database schema with advanced PostgreSQL features (partitioning, materialized views), improving query performance by **400%** for analytical workloads
* Built secure API gateway with **OAuth2** authentication and **JWT** token validation, handling 5M+ monthly requests

## KEY PROJECTS

#### **OBSOURCE (Professional)** | Current

* Architected scalable **web scraping** backend with Redis-based rate limiting and queueing system, processing 40+ supplier websites daily
* Implemented PostgreSQL optimizations (partitioning, indexing, query optimization) enabling **sub-100ms** queries across 2M+ data points
* Designed RESTful API with Django REST Framework, serving complex aggregated data with comprehensive test coverage (90%+)

#### **OBSO LINK (Professional)** | September 2022

* Led backend development for internal software platform, implementing Django REST Framework APIs with comprehensive test coverage
* Engineered data synchronization pipeline between **PostgreSQL** and **WordPress**, scaling to handle **100K+ products**
* Designed and implemented background task processing system with Celery, Redis, and **RabbitMQ** for **high-throughput operations**

#### **Open Translate (Personal)** | April 2024

* Developed translation management backend with Django REST Framework, implementing JWT authentication and **role-based access control**
* Designed database schema optimized for fast retrieval of **multilingual** content with **efficient caching strategies**
* Implemented **API rate limiting**, request validation, and comprehensive test suite with **90%+ coverage**

## EDUCATION

### **KEELE UNIVERSITY**, Staffordshire, UK MSc Advanced Computer Science | September 2021 - December 2022

* Graduated with Distinction and Best Academic Performance 2022 award
* Relevant Coursework: Distributed Systems, Algorithms, Database Optimization, System Design, Machine Learning

#### **COCHIN UNIVERSITY OF SCIENCE AND TECHNOLOGY**, Kerala, INDIA Bachelor of Technology - Computer Science and Engineering | June 2014 - June 2018

## CERTIFICATIONS

* AWS Certified Solutions Architect - Associate
* Certified SAFe® 6 Product Owner/Product Manager
* ISC2 Certified in Cybersecurity (CC)
* AWS Certified Cloud Practitioner