

Shivendra Singh

Software Lead with 9 yrs experience in leading and building data-driven products in startups.

Remote | Europe and Asia time zones

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Experience

- 04/25–Now **Software Consultant / Freelancer**, *startups*, Remote
Backend systems, Microservices, Data engineering, SaaS platforms, API development
- 05/21–03/25 **Software Engineering Lead**, *shipzero GmbH*, Hamburg, Germany
Led the Platform team, overseeing software, backend, and data engineering for carbon emission calculations in the logistics industry (transport, logistics sites, and corporate emissions).
- Joined as the first software engineer, establishing the platform's foundation.
 - Built and scaled engineering teams, hiring top talent to support product growth.
 - Owned the development and architecture of the platform, focusing on scalability, reliability, and security.
 - Designed and developed REST APIs using FastAPI and Flask.
 - Managed Azure cloud infrastructure and DevOps, ensuring seamless integrations and deployments.
 - Led feature, system, and microservices design, optimizing performance and maintainability.
 - Contributed to data warehouse and pipeline development, optimizing transport data processing and analytics.
 - Developed large-scale data-fetching systems, integrating multiple telematics providers.
 - 80+ deployed data fetchers, ingesting 4-5 million transport data rows daily, with scalability upto 1000+ fetchers.
 - Contributed to security and policy compliance efforts for product and organisation's ISO certification.
- 08/20–03/21 **Freelancer**, *Small startups*, Munich, Germany
Backend and software engineering using Python and Flask. REST API development, CI/CD and DevOps.
- 01/20–05/20 **Software Engineer**, *Cognostics AG*, Munich, Germany
Software engineering, backend development and basic machine learning.
- Backend Development for a Health app.
 - Deploying ML models in the app.
 - Backend for graph-based knowledge management on financial news articles data.
- 06/19–12/19 **Software Engineer part-time**, *Cognostics AG*, Munich, Germany
Worked part time in backend engineering and basic ML.
- 05/18–05/19 **Data Scientist part-time**, *HRForecast GmbH*, Munich, Germany
Worked part time in Skill Analytics, Recommender systems and Data Science Consulting.
- 06/17–04/18 **Software Engineer part-time**, *CRXMarkets AG*, Munich, Germany
Part time Software Engineer in Infrastructure Development Team
- 08/15–03/17 **Software Engineer**, *Ericsson R&D*, Bangalore
Network Function Virtualization team: Worked on Ericsson cloud manager to host Ericsson Virtual Routers using OpenStack and automate cloud deployment using Python

Education

- 2017–2019 **MSc Computer Science/Informatics**, *Technical University of Munich*, Munich, Germany
Master of Science in Informatics or computer science.
- 2011–2015 **BTech**, *VIT University*, Vellore, India
Bachelor of Technology in Computer Science.

Engineering skills and expertise

Rated out of **Programming Languages**

5 Python (4), C (2.5), C++ (2.5)

Backend Engineering

Flask (4), FastAPI (4), Microservices (3), SQL (4), PostgreSQL (3), REST API (4.5), Celery (4), Redis cache (3), web app security (4)

Data Science and Engineering

Pandas (4), SQL (4), Numpy (3), ETL (4), Machine Learning (2), data warehousing (4), large scale data pipeline (4)

Cloud Management and DevOps

MS Azure (4), Active directory (4), Azure functions (4.5), Azure devops (2.5), Azure policies (3), Docker (4), CI/CD (4), Github (4), Terraform (3), Openstack (3)

Other Skills

Agile development (4.5), Jira (3), Confluence (3), SCRUM (4), Release Management (5), Product Management (2), Project Management (3), Engineering recruitment (4), Engineering Leadership (4)

Industry expertise & Domain Knowledge

Sustainability & Carbon Emissions

Good understanding of carbon footprint calculations for transport, logistics sites, and corporate operations.

Carbon Markets & Insetting

Knowledge of carbon credit systems, book-and-claim mechanisms, and emissions reduction strategies.

Logistics

Experience in building large-scale data pipelines and telematics integrations for logistics transport data.

Climate Tech

Passionate about leveraging software to drive sustainability initiatives, with hands-on experience in building emission tracking systems.

Personal Information

Nationality

Indian

Languages

English (Fluent), Hindi (Fluent), German (Basic)