

DEEPAK KUMAR PRASAD

📍 Bangalore, IN

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SUMMARY

Senior Application Architect with around 9 years of experience designing and scaling enterprise software solutions. Proven leader in optimizing supply chain systems, achieving up to a 50% reduction in computation time and mentoring teams of 10+ developers. Expert in Python, Angular, and cloud architecture, dedicated to building robust, high-performance applications that drive business value.

Actively seeking Senior Architect roles in the Netherlands and willing to relocate for the right opportunity.

EXPERIENCE

o9 Solutions, Bangalore

Senior Application Architect

Application Architect

Senior Software Engineer

Python Developer (Contract)

Feb 2019 – Present

Apr 2025 – Present

Apr 2021 – Apr 2025

Aug 2019 – Apr 2021

Feb 2019 – Aug 2019

- Architected and implemented scalable integrations with 3rd-party solvers, enabling seamless data exchange across **3+ enterprise platforms**.
- Re-engineered critical Supply Planning (SP) components to enable parameterization and advanced performance tuning, resulting in a **50% reduction in overall batch computation time** and a **30% decrease in memory usage** across multiple client implementations.
- Mentored and led a team of **10+ developers**, driving the development and maintenance of both existing and new Supply Planning (SP) products—including **TLB, MRP, IOP, and core SP features**. Successfully delivered **50+ client-specific customizations** and conducted regular technical workshops to enhance team capabilities.
- Owned and enhanced mission-critical SP plugins such as **Demand Netting, Order Promising, and TLB (Heuristic)**, ensuring high availability and configurability for **150+ global clients**. Proudly designed and developed the foundational **Demand Netting & Order Promising** plugin during the early phase of my tenure, which remains a core component across implementations.
- Managed and maintained version control for **30+ plugin variants**, facilitating modular deployments and customizations without impacting core stability.
- Improved internal productivity by 25% by designing and developing a suite of tools (e.g., **Tenant Extractor, Tenant Builder, Performance Analyzer, Test Recorder & Runner, Rule Creator, Dataset Multiplier**) in Python and Angular, now used by 100+ consultants.

Primesoft Solutions Inc, Bangalore

Associate Engineer

Jun 2016 – Jul 2018

- Integrated **5+ Google APIs** with legacy Python systems, streamlining data acquisition and enhancing functionality across enterprise applications.
- Stabilized and refactored aging codebases, contributing to a **30% increase in system reliability** and improved security posture for a large-scale security project.
- Designed and deployed an Android-based **Attendance Management System** and **Visitor Management System**, automating employee check-ins and reducing manual overhead by **70%**, while providing key analytics such as visitor counts and time-based insights.

- Collaborated with a team of developers to build a microservice leveraging the open-source **Netflix Conductor** project, customizing it to meet specific client requirements and integrating it seamlessly into their orchestration workflow.

EDUCATION

Bachelor of Engineering in Computer Science (SJCE, Mysore)

August 2012 – May 2016

SKILLS

Technical Skills

Languages	Python, Java, C, C++, SQL
Frameworks & Libraries	Angular, ReactJS, FastAPI, Streamlit
Tools & Platforms	Docker, Git, o9 Platform & IBPL, Microservices, SDLC
Core Competencies	Software Architecture, Cloud Architecture, Microservices, System Design, Supply Chain Management (SCM), Performance Tuning & Optimization, CI/CD, Agile Methodologies, Technical Leadership & Mentoring
Spoken Languages	English, Hindi, Manipuri, Bhojpuri, German(A1)

CERTIFICATIONS

Introduction to Data Science (Specialization) — IBM via Coursera

Jan 2021

Python for Everybody (Specialization) — University of Michigan via Coursera

May 2017

Full certification portfolio available at <https://deepak-prasad.streamlit.app/certificates>

REFERENCES

References available upon request.