

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	Feb 2019 – Present
<i>Senior Application Architect</i>	<i>Apr 2025 – Present</i>
<i>Application Architect</i>	<i>Apr 2021 – Apr 2025</i>
<i>Senior Software Engineer</i>	<i>Aug 2019 – Apr 2021</i>
<i>Python Developer (Contract)</i>	<i>Feb 2019 – Aug 2019</i>

- 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

Jun 2016 – Jul 2018

Associate Engineer

- 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.