DEEPAK KUMAR PRASAD

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OBJECTIVE

Dynamic Software Engineer with over 8+ years of experience in software development and architecture. Proficient in leading projects to enhance performance and optimize functionalities across multiple platforms. Successfully mentored teams to achieve project milestones, while optimizing supply planning plugins and developing innovative applications in Python and Angular. Proven ability to drive significant improvements in operational efficiency, positioning to deliver exceptional value in software architecture roles. Passionate about creating and innovating, driven to make a difference and leave the world a better place.

EXPERIENCE

Senior Application Architect   Feb 2019 – Present
o9 Solutions, Bangalore

- 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.

- Designed and developed a suite of native (Python) and web-based (Angular) tools used by **100+ consultants**, improving internal productivity by **25%**. Tools include:

  - **Tenant Extractor**, **Tenant Builder**, **Rule Creator**, **Performance Analyzer**, **Dataset Multiplier**

Associate Engineer   Jun 2016 – Jul 2019
Primesoft Solutions Inc, Bangalore

- 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

- **Gender Recognition based on Palm-print for Pattern Recognition** – Captured palm-print images and used dimensional features for gender classification using MATLAB.

- **Congestion Control for Computer Network** – Implemented priority-based load-shedding to control congestion in networks using C.

- **Web Tutorial** – Developed a text and video-based e-learning website using HTML, CSS, and JavaScript.

SKILLS

Programming Languages	Python, Java, C, C++
Frameworks & Tools	Angular, ReactJS, Docker
Other Technical Skills	FastAPI, Git, o9 Platform & IBPL, Supply Planning, Streamlit, SQL, SDLC, Microservices
Soft Skills	Problem Solving, Debugging & Troubleshooting, Mentoring
Languages	English, Hindi, Manipuri, Bhojpuri, German

SKILLS

Technical Skills

Programming Languages	Python, Java, C, C++
Frameworks & Tools	Angular, ReactJS, Docker
Tools & Platforms	FastAPI, Git, o9 Platform & IBPL, Streamlit, SQL, SDLC, Microservices

Soft Skills

Problem Solving, Debugging & Troubleshooting, Mentoring

Languages

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PROJECTS

For a detailed list of projects showcasing my technical expertise and impact, please visit:
https://deepak-prasad.streamlit.app/work

CERTIFICATIONS

Introduction to Data Science (Specialization) — IBM via Coursera *Jan 2021*
Completed 4-course series covering data science methodology, tools, SQL, and real-world applications. [View Certificate]

Python for Everybody (Specialization) — University of Michigan via Coursera *May 2017*
Completed 5-course series focused on Python fundamentals, data structures, web data access, and databases. [View Certificate]

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

REFERENCES

References available upon request.