

Bharath Medarametla

SAP BTP Solution Architect | Joule AI Architect | SAP Business AI Platform - BAIP | Forward Deployed Engineer | Ex-SAP

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SUMMARY

SAP BTP Solution Architect specializing in Forward Deployed Engineering, with 20+ years building Enterprise Platforms and Applications at SAP and Apple. Embeds with customers and teams to turn ambiguous business problems into production AI (Agentic AI, RAG, MCP) across orchestration, retrieval, evaluation and guardrails, on SAP BTP and beyond, including the SAP Business AI Platform - BAIP. Stays hands-on in Full-Stack SAP BTP Development. Drives AI-assisted engineering across the SDLC, sets reusable reference architectures and standards, and partners with business, platform and development teams to take solutions from prototype to production.

SKILLS

AI & Agentic Systems: Agentic AI, Multi-Agent Orchestration, LLMs, RAG / Multimodal RAG, Hybrid & Vector Search, Embeddings / Vectorization, Knowledge Graphs, GraphRAG, MCP Server Development, A2A, LangGraph, LangChain, Claude SDK, Endor SDK, OpenAI, Gemini, Prompt Engineering

AI Engineering & Quality: LLM-as-Judge Evaluation, AI Observability & Tracing, Guardrails, Responsible AI, AI Agent Governance, Agent Memory & Human-in-the-Loop, LLMops / MLOps Practices, Security & Compliance by Design, AI-Assisted SDLC & Developer Productivity (Claude Code)

SAP Business AI Platform - BAIP: SAP AI Foundation, SAP AI Core, Generative AI Hub (Grounding, Orchestration), Joule, Joule Studio Agents, Joule for Developers, SAP AI Agent Hub, SAP Knowledge Graph, Business Data Cloud, HANA Cloud Vector Engine, SAP RPT-1 (Tabular Foundation Model)

SAP BTP Development: CAP, SAP Build (Process Automation, Work Zone), SAP Build Code, Fiori / SAPUI5, SAP HANA Cloud, Workflow & Business Rules, SAP Integration Suite (CPI, API Management, Event Mesh), Kyma, RAP, SAP S/4HANA, S/4HANA & SuccessFactors Extensibility, Clean Core, ABAP Cloud

Cloud & Engineering: Python, TypeScript, JavaScript, Node.js, Java, React, Express.js, REST, GraphQL, OData, SQL, MongoDB, ABAP, AWS, Kubernetes (Kyma), Docker, CI/CD & DevSecOps, GitHub, Microservices & Distributed Systems, Event-Driven Architecture, API Lifecycle, ML Frameworks (PyTorch, TensorFlow, Scikit-learn — familiarity)

Leadership: Solution & Enterprise Architecture, Reference Architectures, Reusable Accelerators & Standards, Technical Leadership & Mentoring, Customer-Facing Delivery, Executive Stakeholder Advisory, Design Thinking, Agile

Certifications: SAP Certified – Solution Architect – SAP BTP · SAP Certified – Generative AI Developer · SAP Certified – Backend Developer – SAP CAP · SAP Certified – Integration Developer · SAP Certified – SAP Build Developer · Agentic AI (DeepLearning.AI) · SAP Business Data Cloud (SAP Learning)

EXPERIENCE

SAP BTP Solution Architect

Feb 2025 - Present

Apple (via Wipro) - Austin, TX

- Building a multimodal RAG data pipeline on a DAG workflow engine (20+ document format types, Gemini vision captioning, figure-level indexing) with hybrid text/image and graph-based retrieval (GraphRAG), LLM-as-judge evaluation and re-ranking, and tracing — improving generated page quality and figure placement for AI course generation
- Building the BTP Apps Technical Lifecycle Agent System with Endor SDK and Claude — multi-agent orchestration with MCP tool calling that automates platform operations
- Architecting an Agentic Claude Code platform (specialized agents, skills, lifecycle hooks, multi-agent workflows, MCP servers) raising developer productivity across the SDLC with reusable standards and guardrails for development teams
- Driving SAP BTP platform adoption and operations across Apple's enterprise landscape while building on it hands-on, bridging platform governance and application delivery
- Leading SAP System Landscape Modernization initiatives on the BTP platform
- Delivering SAP Build Process Automation solutions (workflows, business rules) that streamline enterprise processes
- Developing BTP CAP applications to Apple's security & compliance, UX, production-quality and Clean Core standards

Stack: Claude, Endor SDK, MCP, Gemini, GraphRAG, SAP BTP (CAP, SAP Build Process Automation, Kyma), SAP HANA Cloud

Founder

Jul 2024 - Jan 2025

theprofile.io - New York, NY

- Built and prototyped a new product integrating verifiable credentials with the Velocity Network blockchain for small and mid-market HR cloud systems
- Explored technical feasibility and go-to-market potential for blockchain-based credential management
- Designed system architecture integrating W3C Verifiable Credentials standard with Velocity Network blockchain APIs

Key Projects: Verifiable Credentials Platform, Velocity Network Blockchain Integration, W3C VC Standards

SAP - 18 years (Jul 2006 - Jun 2024)

Business Technology Platform (BTP) Architect

Apr 2023 - Jun 2024

Palo Alto, CA

- Served as Lead Technical Consultant for BTP customer adoption — advised customer executives and program leadership, ran technical discovery and architecture reviews, and guided solutions integrating SAP and non-SAP systems from design through production

- Implemented an AI Assistant PoC on SAP AI Core and Generative AI Hub with OpenAI models — RAG over business documents with grounding and orchestration — automating business document handling and enhancing decision-making
- Developed SAP BTP extension applications using the Cloud Application Programming Model (CAP), embracing Clean Core principles and improving scalability and maintainability of extensions
- Led a development project for an SAP SuccessFactors extension on BTP, orchestrating cross-functional collaboration to ensure seamless integration and alignment with business objectives
- Mentored customer and partner developers on CAP, Clean Core and BTP best practices, accelerating BTP adoption

Stack: SAP BTP, CAP, SAP AI Core, Generative AI Hub (Grounding, Orchestration), OpenAI, RAG, SAP SuccessFactors Extensions, Clean Core

Lead Software Engineer

May 2018 - Mar 2023

SAP - Palo Alto, CA

- Spearheaded the development of an HXM Web3 product, Verifiable Credentials on Velocity Network Blockchain, overseeing end-to-end architecture and development. Managed blockchain network operations on AWS (ECS/EC2) to launch the SAP Credential Authentication Office (CAO) mainnet
- Led SaaS SuccessFactors module projects aligned with SAP's North Star architecture, utilizing SAP BTP's CAP Model with SAPUI5, React, and AWS, ensuring a Clean Core approach
- Implemented a micro-frontend architecture for SuccessFactors user and admin UI components, enabling independent zero-downtime deployments and improved reliability
- Developed the Reward and Recognition module's web experience using SAPUI5, Fiori design principles, and OData v4

Key Projects: Verifiable Credentials on Velocity Network Blockchain, SuccessFactors North Star Architecture, SAP SuccessFactors Reward and Recognition

Associate Development Architect

Apr 2016 - Apr 2018

SAP - Reston, VA

- Led development of SuccessFactors modules, including Homepage v3, People Profile v3 and Learning Course Home, using SAPUI5, OData, and Fiori design, improving user engagement across the platform
- Designed and implemented the SuccessFactors Release Center, integrating JIRA data to automate release management
- Led the UI Platform Development team, mentoring engineers and setting SAP development standards

Key Projects: SAP SuccessFactors Homepage v3, SAP SuccessFactors People Profile v3, SAP SuccessFactors Release Center, SAP SuccessFactors Learning Course Home

Principal Software Engineer

Apr 2011 - Mar 2016

SAP

- Contributed to pioneering SAP HCM Fiori apps using SAPUI5 and OData, delivering the initial suite of employee and manager self-service applications
- Key member of the Fiori Center of Expertise for SuccessFactors and SAP HCM, influencing development standards and contributing to early concepts that evolved into SAP CoPilot
- Led development of the SAP HCM Renewal Landing Page and contributed to the SAP Fiori Launchpad Admin
- Directed development of the web tooling for SAP Cloud Integration (CPI) beta on SAP Cloud Platform, with an HTML-based BPMN integration-flow editor (Project Gravity)
- Developed a prototype for Fiori Voice Composer, an innovative voice-command app using SAP Fiori OData APIs, laying groundwork for SAP CoPilot

Key Projects: SAP HCM First Wave Fiori Apps, SAP HANA Cloud Integration Web Tooling, HCM Renewal Landing Page, Fiori Launchpad Admin, Fiori Voice Composer

Senior Software Engineer

Jan 2008 - Mar 2011

SAP

- Designed RESTful integration APIs (XSLT transformations) for Business Process Blueprinting v1.0 and a .NET smart client generating business process maps in SAP Solution Composer

Key Projects: Business Process Blueprinting (BPB) 1.0, SAP Solution Composer, SAP Enterprise Services Workplace 2.0

Software Engineer

Jul 2006 - Dec 2007

SAP

- Built the Business Rules Management System web editor (ASP.NET) and the Business Rules Engine API for executing business rules across enterprise applications

Key Projects: SAP Business Rules Management System, Business Rules Engine API

EDUCATION

MS, Computer Software Engineering

San Jose State University - California, US

BE, Electronics & Communications Engineering

Osmania University - Hyderabad, India