

Badhree Babu

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Technologist with 15+ years of experience with a knack to **identify and solve complex technical** problems across, FinTech, Healthcare, Telecom and Enterprise Software, with best-in-class technology and holistic system design. I have a strong data engineering expertise for Predictive and Generative AI applications.

Seeking **Enterprise Level** Architectural, Managerial or Sr. Engineering Lead Role where I can **advise and drive structural changes** to the enterprise **leveraging AI** and improving engineering effectiveness and product quality, while keeping teams motivated and innovative.

Skills

Domain

- FinTech
- Credit Products
- Healthcare
- Telecom
- Software and SDLC
- Technology Productization
- Platform Engineering
- Target Market Fit Understanding
- Domain Driven Design

Technical

- JavaScript, Go, Java, Python
- Spring Boot, Fast API, Flask, React, NextJS, GraphQL, Pulumi
- GCP, AWS, Azure DataBricks
- Oracle, Postgres, SQL Server
- [ML]Sikit-learn, TensorFlow, PyTorch, Keras, XGBoost, Transformers, OpenCV
- [Gen AI] PEFT, LoRA, DPO, deepspeed, whisper

Leadership

- Team Management
- Change Management
- Vendor Relationship
- Hiring and HR Policy
- Cross Functional Team Communication
- Budgeting, PI Planning
- Systems Thinking
- Behavioral Economics

Work Experience

Sr. Staff Software Engineer, Credit Products and Platform | PayPal Inc

Oct-2020 – Present

- Served as a go-to expert for PayPal's Credit Products' **Architecture and Governance**. This led me to being chosen as one of the initial team of PayPal's Agentic Commerce platform that is designed to scale in size and functionality in years to come.
- Delivered multiple strategic, value focused initiative like **PayPal Credit Card** and **Pay Later products** and influenced key business decisions, driving long-term cost savings projected in the millions per year. Tech Stack: Java
- Some Key Business and Technical Initiatives where I played a lead role include:
 - **Pay Later Products** Expansion in Europe. Revenue **€40M Per Year**. Team Size: 20-30. Tech Stack: **Java, NextJS, Go**
 - Built **Credit Externalization Platform** from Scratch. Revenue **€13M Per Year**. Tech Stack: **Java, BigQuery**
 - Migrating PayPal Pay Later products from **Temenos** (vendor) to **Fineract** (self-hosted - open source). Revenue Saved **\$5M USD Per Year**. Team Size: about 20. Tech Stack: **Java, GCP, Cloud SQL, Postgres, Pulumi**.
- Built **Generative AI Agents** that can take in a business use case in English and convert them into IOS and Android test scripts, execute them and provide test results. Saved 2 weeks engineering time per product launch. Tech Stack: **Crew AI, Lang Chain, Python, Qwen-Coder3-8B**
- Built a comprehensive **Azure Databricks** and **MLflow** based **data pipeline** for PayPal and Venmo's Multi-Model Agentic Commerce Project, including **model fine-tuning with RLHF and GRPO**. Originated as a hackathon idea and evolved into a production-ready solution. Currently developing an agentic workflow using **LangGraph and CrewAI**. Team Size: ~10
- Built a Cross Organization **Observability** solution between Venmo, PayPal and Synchrony Financial to aggregate metrics and providing real-time alerts, reducing production incidents by ~35%. Tech Stack: **Open telemetry, Kafka, Datadog**. Team Size: 4

Work Experience Continued in Next Page

Passion Project | Startup Advisor | SDLC.works

One of my passion areas is to work with budding startup founders and help them with their technology stack. I do this **Pro Bono** just out of self interest in technology. I would like to highlight this startup whom I have helped in the past:

SDLC.works aims to automate SDLC for other SaaS startups so that they can go from idea to production in matter of days. The product automatically provisions everything, code repositories, infrastructure, and environments, so engineers can start coding immediately. Teams can define or choose from pre-built software development lifecycles, and SDLC.works will ensure the process is followed by all team members from development through production. **My role:**

- Provide technical leadership as the **Sole Technology Advisor** and help bootstrap this start up from scratch.
- Drive hiring and team capability: **recruiting and mentoring engineers**; establishing best practices and design standards; influencing engineering culture to support rapid iteration with reliability & technical excellence.
- Shape the **foundational architecture** and dev processes: reviewing designs, ensuring scalability, security, maintainability across a modern stack (**Next.js, AstroJS, Go, Postgres, Python, Kubernetes**), and advising on infrastructure (**GCP, self-hosted databases, Pulumi**) for cost & performance optimizations.
Built an automated build and deployment system using **Nx, Nixpacks, self-hosted GitHub Runners**, and **JFrog Artifactory**, integrating **Trivy and SonarQube** for secure, reproducible pipelines and faster environment provisioning.

Work Experience Continued

Engineering Solutions Architect, DevOps, Customer Success | Broadcom / CA Technologies **Feb-2017 – Oct-2020**

- Worked with healthcare customers to synthetically generate **EDI files (837P, 837I etc.)** from production data with PII removed, ensuring all functional aspects were preserved for use in ML model training. Tech Stack: Java, PL/SQL, MS SQL Server.
- Large Scale Data Movement Solutioning (Peta Bytes) for Test Data Management across Large Databases for Clients like Geico and Key Banc across **Oracle** and **MS SQL Server** Databases and Non-Relational Databases like **MongoDB**
- Involved with customers across various **sales life cycles** to understand their needs and engineer a solution that meets their technical needs, financial needs and make sure they realize true value, resulting in **multi-year services contract renewals**.
- Collaborated with multiple Fortune 500 companies to identify and address challenges from mainframes to SDLC to security to release management by implementing large scale solutions, while being compliant with **HIPAA, GDPR, SOX** etc.
- **Productized** a solution that integrated eight CA tools and several non-CA tools, enabling rapid deployment in customer ecosystems and demonstrating value within days rather than months, resulting in a 25% increase in customer satisfaction and contributing to a **\$10 million USD revenue uplift every year**. Tech Stack: Java, Cucumber Tests, Spring, Jenkins, Observability.

Lead Software Engineer, Uprising Migration Core Team | T-Mobile as a Contractor **Nov-2014 – Feb-2017**

- Built a comprehensive solution to **migrate 50 million customers** On Demand or Batch from multiple Amdocs systems to multiple Ericsson systems, with complex data split across hundreds of database tables with features list management, data mapping, ETL, audit and control, and reporting.
- Developed **Solid Telecom Domain knowledge** from Operational Support Systems, Business Support Systems, Network, Inventory, Orders, Switches, Usage, Billing, Accounts, Business Intelligence, Customer Service etc.
- Successfully built and led an **inter-disciplinary team** of 20, with engineers and business analysts.

Senior Developer, Business Escalations Team | US Cellular as a Contractor **Jun-2013 – Nov-2014**

- Developed and deployed **automated reconciliation solutions** across customer, billing, order, and number management systems for Large Business Customers, enabling automatic correction of data discrepancies and providing actionable data for root cause analysis.
- Implemented process and database optimizations, including **streamlined maintenance workflows** and periodic bulk updates, ensuring high data accuracy, reduced manual effort, and improved system performance.

Junior Associate to Sr. Technical Associate, Various Roles | Tech Mahindra **Jun-2007 – May-2013**

- Joined via campus placement and contributed to the maintenance of the Amdocs Billing and Order Management System for both Landline and Mobile segments. Leveraged Oracle **PL/SQL** extensively to analyze production logs, identify root causes, and fix high-priority production bugs. Designed and executed production-to-QA test data transfer scripts to replicate real-world scenarios, ensuring faster and more accurate defect resolution.
- Developed high-performance batch jobs in **C and C++** for end-of-day (EOD) and end-of-month (EOM) processing, optimizing large-scale data handling and reducing job execution times. Created Shell scripts to automate job scheduling and monitoring, resulting in improved system reliability and reduced manual intervention.

Education

- MS in Software Engineering – Brila Institute of Technology and Science **2011**
- BSC in Computer Technology – Anna University **2007**
- Post Graduate Program in AI and ML Business Applications – University of Texas, Austin **2025**
- An autodidact with focus on computer science, software engineering, social and systems sciences **Always**

Cover Letter

Throughout my career, I have developed a keen interest in building systems that enhance operational efficiency while prioritizing the human experience. I have consistently focused on aligning technology initiatives with business goals, particularly in large-scale organizations where multiple teams interact. By creating integrated frameworks that enhance productivity and streamline workflows, I ensure that the solutions I develop meet technical requirements and promote an environment where teams can thrive collectively.

I am eager to bring this holistic perspective to your organization and contribute to building innovative solutions that prioritize both technology and the people who use it. I am committed to continuous learning and excited about the opportunity to apply this breadth of knowledge at your organization, helping drive impactful results.