Biju Nair

Pune, India · +91 9970155204 · bnnair@gmail.com · LinkedIn · GitHub

Education

BITS, Pilani
M.Tech in Data Science Engineering

Pilani, India
2022 – 2024

Mumbai University
B.E in Instrumentation

Mumbai, India
1996 – 1999

Work Experience

Fulcrum Digital Private Limited
Senior Technical Project Manager

Pune
Jan 2021 – Oct 2022

- Led two project teams (40+ resources) for payment product enhancement for MasterCard (UK), ensuring alignment with business objectives.
- Managed fixed-bid projects, successfully delivering specific story points per iteration, which improved project delivery timelines by 20%.
- Coordinated with interdepartmental teams (DevOps, product, infrastructure, performance) to optimize task management and enhance collaboration.
- Identified and mitigated project risks, providing regular updates to clients, resulting in a 30% reduction in project-related issues.
- Implemented quality initiatives for the entire Consumer App project portfolio, leading to a 15% increase in customer satisfaction scores.

HSBC Software Development India Pvt. Ltd.
Technical Project Manager

Pune
Apr 2010 – Jan 2017

- Led significant projects under the Staff Transformation Program, including AWS cloud migration and DevOps implementation, enhancing operational efficiency.
- Managed end-to-end project lifecycle for re-engineering banking applications using microservice architecture, improving system scalability and performance.
- Implemented agile scrum ceremonies (Scrum of Scrum) to enhance project visibility and collaboration, resulting in a 25% increase in team productivity.
- Drove performance and quality improvements, managing vendor resources effectively and optimizing onshore-offshore engagement models.
- Effectively communicated project status and risks to senior management and clients, ensuring alignment and transparency throughout project phases.

HSBC Software Development India Pvt. Ltd.
Tech Lead

Pune
April 2007 – April 2010

- Managed the HFE Enhancement project, overseeing planning, execution, and implementation, ensuring adherence to project timelines and budgets.
- Developed high-level design (HLD) and low-level design (LLD) documents, facilitating clear project specifications and stakeholder understanding.
- Defined and implemented quality targets, achieving a high Sonar quality index and ensuring robust software development practices.
- Collaborated with cross-functional teams to ensure project alignment with business goals and technical requirements.
- Mentored junior team members, fostering a culture of continuous learning and professional growth within the team.

Side Projects

Elderly Care Application (M.Tech Project)

- Developed an application using computer vision and AWS services for fall and fire detection.
- Delivered prompt alerts, enhancing safety in households.

Machine Learning Applications with LLMs & RAGs (M.Tech Project)

- Created multiple applications utilizing Large Language Models and Retrieval Augmented Generation techniques.
- Leveraged vector databases for enhanced search and retrieval capabilities.

Computer Vision Model

- Built a real-time object detection and classification model using TensorFlow and OpenCV.
- Showcased strong programming skills in Python.

NLP Model for Customer Feedback Analysis

- Developed an NLP model using BERT and Transformers for analyzing customer feedback.
- Extracted key insights to improve customer satisfaction.

Self-Driving Car Project (Udacity Nanodegree)

- Completed a deep learning model for autonomous driving as part of Udacity's Nanodegree.
- Demonstrated expertise in AI and machine learning applications.

Achievements

- **AWS Solution Architect Certified:** Certified as an AWS Solution Architect - Associate, demonstrating proficiency in designing and deploying scalable systems on AWS.
- **Data Science course from UpXAcademy:** Completion certificate of six months Data Science course from UpX Academy, a Tech Mahindra venture, enhancing skills in data analysis and machine learning.

- **Nano degree from Udacity:** Completion of term 1 of Self Driving car Nano degree from Udacity.com, showcasing knowledge in AI and autonomous systems.
- **PMP Certified:** Certified as a Project Management Professional (PMP), validating expertise in project management and team leadership.

Additional Skills

- Data Science
- Machine Learning
- Cloud Computing
- Open Source Projects
- Project Management
- Entrepreneurship

- Microservices Architecture
- Agile Methodologies (Scrum, Scrum of Scrums)
- Quality Assurance
- Technical Documentation
- Cloud Migration (AWS)

- **Languages:** English (Fluent)