



Bharath Prakash

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About me: <https://bharath28-portfolio.netlify.app/>

Home: Bengaluru (India)

WORK EXPERIENCE

Software Engineer - Developer

Boeing India Private Limited [16/08/2023 – Current]

City: Bengaluru | **Country:** India

Currently working as a **Software Engineer** for the **International Space Station (ISS)** Program at Boeing.

1. Designed and developed Python scripts to automate and evaluate large-scale database migration from MSSQL to MySQL.
2. Developed a Python module to overcome MySQL's 64-character table name limitation, ensuring seamless MSSQL table migration.
3. Migrated a Python application and T-SQL scripts from MSSQL to MySQL, ensuring optimal performance and compatibility.
4. Enhanced and maintained a VB6 and Python-based structural analysis tool for critical International Space Station components.
5. Configured and managed MySQL servers on VMware Tanzu for optimized performance, reliability, and multi-instance support.
6. Integrating multiple Python-based tools and SQL scripts into a single unified application to enhance workflow efficiency. (Ongoing)
7. Designing the user interface (UI) with Figma and developing it using PyQt5. (Ongoing)
8. Completed Basic Trainings on – ReactJS, JavaScript, Redux, MapBox, Basics of AWS.

Technical Skills: Python, SQL, MySQL, PyQt5, Draw.io, Figma, VMware Tanzu, ReactJS, JavaScript, Redux, MapBox, VBA Macros

Intern

Bosch Limited [09/02/2023 – 17/03/2023]

City: Ramanagara | **Country:** India

Utilized advanced statistical methods and software tools to analyze and interpret performance data, identifying key trends and optimization opportunities for fuel injection and CBx high-pressure pumps.

EDUCATION AND TRAINING

Bachelor of Engineering (B.E)

M S Ramaiah Institute of Technology [2019 – 2023]

City: Bengaluru | **Country:** India | **Field(s) of study:** Electronics and Instrumentation Engineering

CGPA: 7.85/10 (German GPA – 2.0/5.0)

Pre-University College

Vidhya Mandir Independent Pre-University College [2017 – 2019]

City: Bengaluru | **Country:** India | **Field(s) of study:** PCMC

Secondary Education

ST Mary's High School [2017]

City: Bengaluru | **Country:** India | **Field(s) of study:** SSLC

DIGITAL SKILLS

Python / SQL / Microsoft SQL Server / MySQL / Transact-SQL / C / C++ / OOPS / HTML / CSS / TailwindCSS / JavaScript / ReactJS / Signal Processing / Digital Signal Processing / Embedded C / Keil uVision / NI LabVIEW / Cadence Virtuoso / NI Multisim / MATLAB / Simulink / Visual Basic for Applications / Raspberry Pi / Arduino / ESP32 / Verilog (VHDL) / VLSI / Scilab

PROJECTS

[07/2024 – 08/2024]

E - CoderShelf

Built an e-commerce platform using ReactJS, Redux, Advanced CSS, TailwindCSS, and JSON Server, enabling users to browse and order books with a user-friendly interface for efficient book management.

[01/2023 - 04/2023]

FilmVault

Developed a movie details platform similar to IMDb using ReactJS, API integration, custom hooks, and advanced CSS with TailwindCSS. Implemented React Router for seamless navigation, enabling users to explore and view comprehensive movie information efficiently.

[01/2023 - 04/2023]

The Data Transmission Technique Using Low-Cost Li-Fi

Designed a low-cost Li-Fi system with an ESP32 microcontroller to transmit text, audio, and images, leveraging MATLAB-based signal processing algorithms to minimize noise and ensure reliable communication.

[04/2022 - 07/2022]

Automation of Phototherapy for Neonatal Jaundice Patients

Engineered an automated phototherapy device for neonatal jaundice using ESP32, incorporating image-based detection, non-invasive bilirubin analysis, treatment automation, and real-time cloud notifications for caregivers.

[01/2022 - 02/2022]

Student Information System (SIS)

Developed a secure Student Information System in C# for managing student registration, login, course enrollment, and hall ticket generation in a single streamlined platform.

CERTIFICATIONS

[09/2024]	AWS Security Essentials - AWS Training and Certification
[06/2024]	Developing Front End Apps with React - edx (IBM)
[06/2024]	Technical Support Fundamentals - Coursera (Google)
[06/2024]	Effective ChatGPT Prompts - O'REILLY (Boeing)
[03/2024]	Data Science Orientation - IBM
[12/2023]	Normalization and Indexes - SQL Server - O'REILLY (Boeing)
[11/2023]	Python Programming - O'REILLY (Boeing)
[11/2023]	SQL with Microsoft SQL Server - O'REILLY (Boeing)
[11/2023]	VB for Microsoft Excel - O'REILLY (Boeing)
[12/2022]	Cyber-Physical Systems - Ramaiah Institute of Technology
[11/2022]	Data Structures & Algorithms Essentials using C++ (2022) - Udemy
[09/2022]	VLSI Design Gates to ICs - Ramaiah Institute of Technology (Workshop)
[03/2022]	Programming for Everybody (Getting Started with Python) - Coursera (University of Michigan)
[11/2021]	Industrial Automation Based Professional Training Program - LabView Academy (NI Instruments)
[07/2020]	Mathematical Perspectives on Computational Science and Engineering - Ramaiah Institute of Technology

CONFERENCES AND SEMINARS

[05/2023] P.S.V College of Engineering and Technology, Tamil Nadu, India.

A National Level Technical Symposium - TEKWARZZ - 2023

Presented a Bachelor's Thesis on Li-Fi-based Data Transmission at the National Level Technical Symposium, recognized for its innovative use of visible light and practical engineering solutions.

[12/2022] Ramaiah Institute of Technology

Digital Twin for Oil Pipeline Risk Estimation using Prognostic and Machine Learning Techniques

Delivered a seminar on Digital Twin technology for oil pipelines, highlighting the use of machine learning, IoT, and AI for risk prediction and real-time control in remote substations.

LANGUAGE SKILLS

Kannada: Mother Tongue

English: Business Fluent

Other language(s): German A1