Chennai, India

SHAILENDRA BABU K B

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Passionate and results-driven Software Developer with a strong interest in software development, testing, and code quality. Proficient in coding, code reviews, and agile project methodologies, with a proven ability to learn quickly and apply critical thinking to solve complex problems. Eager to expand expertise in AI and data-related technologies. Recognized for strong leadership, effective collaboration, and a commitment to delivering high-quality software solutions.

Work Experience

Junior Software Developer, Solidpro Engineering support, Chennai - India, Aug 2023 - Present

- Developed application-level features and enhancements using C++, Python, and Qt, contributing to the core functionality of industrial printing systems.
- Collaborated with cross-functional teams—including firmware, hardware, and UI/UX—to deliver cohesive and high-performance software solutions.
- Designed and executed automated and manual test cases to validate functionality, stability, and compliance with technical specifications.
- Conducted comprehensive unit, integration, and system-level testing to identify and resolve software issues early in the development cycle.
- Utilized version control systems, CI/CD pipelines, and issue tracking tools to ensure codebase integrity and streamline development workflows.
- Performed in-depth debugging and root cause analysis, contributing to continuous improvement and issue resolution.
- Actively participated in code reviews, architectural discussions, and documentation efforts to uphold high software quality standards.
- Supported software deployment and field validation, ensuring seamless integration and minimal downtime in customer environments.
- Demonstrated strong programming, debugging, and testing skills with a focus on delivering reliable and maintainable industrial software solutions.

Intern, CDAC Chennai, Chennai - India, 2022

- Contributed to the development of system startup features and automation solutions using C++, Python, and Linux.
- Gained hands-on experience in system-level programming, image processing, and integrating IoT-based components.
- Worked on optimizing performance and reliability in embedded environments, with a focus on real-world industrial applications.

Education

- **B.Tech Electronics and Communication Engineering,** Vellore Institute of Technology, Chennai.   **2019–2023**

Technologies and Languages

- Languages: C++, Python, C, Java, SQL, R
- Frameworks & Tools: Qt, Google Test, JIRA, Github, Power BI
- Platforms: Linux, Windows
- Technologies: Image Processing, Machine Learning, Web Scraping, Automation, Artificial Intelligence, Gen AI
- Web & Others: HTML, CSS, JavaScript, React Native, MATLAB, Arduino

Projects

- ➤ **Water Quality Monitoring System -** IoT-enabled water monitoring using sensor interfacing and automation.
- ➤ **Intelligent System for Arrhythmia classification -** MATLAB-based classifier for ECG signals using FFT and ML.
- ➤ **CIFAR-10 Image Classification** - CNN-based image recognition using Python.
- ➤ **Supermarket Billing System -** Command-line billing app in C++.
- ➤ **Chatbots** - Text summarizer and PDF document chatbot using Bard API model.
- ➤ **Bank Customer Churn Prediction -** Bank customer churning prediction using artificial neural network.
- ➤ **PDF Text Summarizer -** Streamlit app to extract and summarize PDF content.
- ➤ **Web Scraper and Email Automation -** Python script to scrape data and send automated updates.
- ➤ **Score predictor -** Predicting batsmen scores in IPL using regression in R-studio.
- ➤ **Portfolio Website -** Personal site showcasing projects and technical portfolio.

Certifications and Courses

- ➤ AWS Certified Cloud Practitioner
- ➤ Google IT Automation with Python Professional Certificate (Coursera)
- ➤ Data Science Immersive Bootcamp 5.0 (Analytics Vidhya)
- ➤ Machine Learning Practical Workout (Udemy)
- ➤ Introduction to SQL (Simplilearn), Python Core (Sololearn)
- ➤ Java Programming for Complete Beginners (Udemy)
- ➤ Web Designing for Web Developers (Udemy)
- ➤ Arduino SMS Sending Motion Detector Using Python, Arduino Meets Python (Udemy)
- ➤ Sensors: Everything You Need to Know, The Complete Raspberry Pi Bootcamp, PIC Microcontroller Timer and Watchdog Timer (Udemy)
- ➤ Advanced C++ Training, Java Training, PHP and MySQL Training (Spoken Tutorial)

LANGUAGE SKILLS

- ➤ Tamil (Native)
- ➤ English (Professional)
- ➤ Hindi (Professional)
- ➤ Spanish (Beginner)
- ➤ German (Beginner)