YASHWANTH PINDI

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MY WEBSITE

Want to know more about me? Visit my Website Developed and Maintained by me: https://yashwanthpindi.com/

OBJECTIVE

Results-driven software developer with proven success in optimizing software delivery pipelines and enhancing product quality through automation. Experienced in leading software development and DevOps cycles, reducing time-to-market, and driving cost-effective solutions for enterprise clients at Mercedes-Benz, Bosch and Goldman Sachs.

SKILLS

Microcontrollers	RH850/F1L, RH850/F1KM, ST/SPC58EC74E1F0C, Mercedes-Benz Microcontroller.
Embedded	Vector CANoe, AUTOSAR, ISO 26262, UDS - ISO 14229, JTAG Debugging, DLT Viewer.
Embedded Tools	DTS Monaco, QFIL, winIDEA, TUT testing tool, CAN and Ethernet Protocols, Yocto.
Technical Skills	Python, C++, MySQL, Scripting (Shell, C, Vector CAPL), AWS, Docker, Kubernetes.
Full-Stack	HTML, CSS, JavaScript, ReactJS, Python.
Tools	Azure DevOps, Git, Scrum, Agile, Jenkins, Atlassian (JIRA, Confluence), Ansible.
Simulations	Robot Framework, Qt Framework.

EXPERIENCE

Process Automation Engineer (Work-Study)　　　　　　　　　　　　　　　December 2023 - Present
Mercedes-Benz MBition　　　　　　　　　　　　　　　　　　　　　　　　　　　*Berlin, Germany*

- **Project 1: Vehicle Abstraction, Safe OS and SW Update.**
- **Python automation scripts** for test result analysis, resulting in a 40% reduction in manual testing time and improved efficiency in product releases.
- Integrated CI/CD pipelines using **Azure DevOps**, automating build, test, and deployment workflows to streamline software delivery and reduce manual intervention by 40%.
- **C++** Software Development on the Vehicle Abstraction Layer.
- **Project 2: Speech Crafters, Mercedes-Benz MBUX Voice Assistant**
- **C++** Software Development on the voice assistant system of Mercedes-Benz cars.
- Automated CI/CD processes using **Jenkins** and **shell scripting**, accelerating software delivery cycles by 30% and reducing human error in critical updates.
- Monitored CPU, RAM, and startup performance using **Python and shell scripts** for system optimization.
- Automated RPM package installations through shell scripting for efficient software validation, testing, and issue tracking.
- Set up and configured a **Docker** environment for testing. Docker is used for testing software components, facilitating efficient validation before deployment to physical systems.

Software Developer　　　　　　　　　　　　　　　　　　　　　　　　August 2021 - August 2023
Bosch Global Software Technologies　　　　　　　　　　　　　　　　　　　　　*Bangalore, India*

- **C++** software development on Central Gateway Communication System in Automobiles. Our microcontroller ECU (Electronic Control Unit) enables communication between all the ECUs present in an automobile.
- Project 1: SPC58EC74E7E0C1X ST Microcontroller Developer

- Conducted system-level tests by integrating **Robot Framework** with Vector CANoe, enabling validation of ECU communication over CAN.
- Conducted cross-module functionality testing following an upgrade to the microcontroller's microprocessor, ensuring seamless integration and functionality across all software modules.
- Microcontroller Abstraction Layer **(MCAL) Development** including OS, RAM, and Stack modules development. The other modules were Startup, Watchdog, Ports and ADC (Analog to Digital Converter) software development.
- Project 2: RH850/F1KM Renesas Microcontroller Developer
- **Software Integrator:** Led the integration of critical software modules, ensuring seamless compatibility before release, which contributed to a 25% improvement in product stability and client satisfaction.
- Executed automated test cases using **Robot Framework** to validate embedded software functionalities
- Led software configuration for Electromagnetic Compatibility (EMC) testing of the microcontroller, ensuring all software components met testing requirements and industry standards.

Software Developer   January 2021 - July 2021
Goldman Sachs   *Bangalore, India*

- Automated monthly data analysis of Interest Rate products using Python, reducing processing time from 3 hours to 5 minutes.
- Collaborated with cross-functional teams from UK to manage the automation of analysis of structured trades.
- **Ansible** to automate software installation and server configuration, enabling consistent environment setup and reducing deployment time.

PROJECTS

Own LAMP Server on Rocky Linux 8.10 hosting WordPress: Engineered a fully functional LAMP server on Rocky Linux 8.10 to host a WordPress site. Configured Apache to efficiently manage incoming browser requests, optimized MariaDB for secure and scalable data storage, and implemented PHP for seamless server-side scripting, ensuring robust website performance and stability. GitHub: https://github.com/ypindi/Own_LAMP_Server_hosting_Wordpress

Office Security using AWS Rekognition: Developed an Office Security System using AWS Rekognition for facial recognition and AWS DynamoDB for employee data management. Implemented a React JS front-end where visitors upload images, which are stored in an S3 bucket. The system uses AWS Rekognition to verify whether the individual is an employee by matching the uploaded image with the employee database, enhancing office security and automating access control processes. Github: https://github.com/ypindi/AWS_Rekognition_Office_Security_System

EDUCATION

Master of Science in Professional IT Business and Digitalization, Hochschule fur Technik und Wirtschaft Berlin   October 2023 - March 2025
Relevant Coursework: Data Science, IT Security, Cloud Computing, Mobile Computing and App Development, IoT.

Master of Business Administration (MBA) in Information Technology Systems Management, Narsee Monjee Institute of Management Studies, Mumbai   June 2021 - May 2023
Relevant Coursework: Information Systems Management, IT Project Management, IT Risk Management, Business Analytics, Decision Science.

Bachelor of Technology (B.Tech) in Electrical and Electronics Engineering and Minors in Computer Science, PES University   August 2017 - May 2021
Relevant Coursework: Data Structures, Operating Systems, Database Management Systems, Design of Algorithms.

LANGUAGE

German   B2
English   C2
Kannada   Mother Tongue