

Sarthak Bhatt

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EDUCATION

Master of Science Degree in Computer Science, California State University, Sacramento

July 2023

Bachelor of Science Degree in Computer Science, UTU, UK, India

May 2016

SKILLS

- O/S Platforms: Linux, Windows, MacOS.
- Application Platform: Peoplesoft SAP BASIS
- Programming: C/C++, Java, Python, Bash, Batch Scripting, PowerShell.
- Data Analysis & Reporting: PostgreSQL, MongoDB, Oracle, Microsoft SQL Server, Tableau, SAP HANA.
- Web Development: JavaScript, HTML5, CSS, XML, Angular.
- Software Tools & Systems: Docker, Git, Kubernetes, Jenkins, AWS, OnBase (basic familiarity).
- Driver Development: Windows Driver Kit (WDK), Windbg, KVM GT, Microsoft Visual Studio, Arduino.
- Methodologies: Agile, Scrum.
- Tools: Conda, Docker, Git, CMake, QuickBuild, Doxygen, Streamlit, Jira.

EXPERIENCE

Graphics PnP Software Intern

Intel Corporation

Feb 2022 - Aug 2022

- Proven expertise in cleaning up features related to Intel Graphics Turbo Boost technology and Level Zero Sysman.
- Enhanced expertise in C and C++, object-oriented design, and utilized Visual Studio, underpinned by solid communication.
- Design and develop Intel Graphics benchmarking tool, enhancing the debugging process of host side of Kernel Mode Drivers.

Core Graphics Software Intern

Intel Corporation

Sept 2021 - Feb 2022

- Collaborated with cross-functional teams, including hardware and firmware unit, to develop and debug graphics drivers.
- Resolved customer issues involving Timeout Detection and Recovery using WinDBG and the knowledge of driver code process.
- Developed proficiency with WDDM (Window Display Driver Model) APIs and delved into the graphics pipeline.

SAP HANA Consultant

Waddaya Solutions

May 2015 - Aug 2018

- Expertly managed SAP planning, sizing, installation, upgrades, and maintenance; adept at tuning, troubleshooting, and documenting within intricate heterogeneous environments.
- Proficiently collaborated with project, process, and development teams, end-users, and SAP Worldwide support both during and post-project implementation.
- Deep discussion with vendor to understand architecture of application.
- Demonstrated ability in developing and maintaining a large business information system with a commitment towards Enterprise Security and Risk Management.
- Capacity Planning/Hardware Sizing, Vendor Selections with a systematic approach to accomplishing the requirements.
- Instrumental and proven record in using technology for real business benefits.

PROJECTS

- **GPU Telemetry Tool for Intel:** Designed Intel's GPU telemetry tool, capturing metrics such as core usage and memory bandwidth. Employed Intel's SDK for direct GPU interfacing, leveraging both continuous and event-driven sampling. Aggregated data for clarity and ensured efficient storage with real-time visualization. Further extended the telemetry tool with a CLI for enhanced debugging, achieving a **25% reduction in debug time**.
- **Autonomous Line Follower Robot:** Successfully designed and implemented a fully functional autonomous line follower robot using an ATmega168 microcontroller, motor driver, and infrared sensors. Utilized the ATmega168 microcontroller for movement control and infrared sensors for path tracking.
- **E-Signature Management System for CalPERS:** Developed a secure and user-centric E-Signature portal, focusing on business process improvement and efficient data management. Engaged in detailed functional acceptance testing, ensuring the system's robustness and efficiency.
- **A Dashboard for Canines Suffering from CHF:** Designed and Crafted a dashboard using Streamlit and Scikit-learn in Python that classifies the current condition of canines suffering from Congenital Heart Failure with **98% success rate** with features like generating PDF reports of the patient based on interactive charts.

PUBLISHED PAPER

Bhatt, S., Jain, P. (2016). Face Detection & Color Detection Controlled WMR Using MATLAB. *IJSER*, 7(01), 1601-1603