**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

# COURSEWORK

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| --- | --- | --- |
| **Advanced Computer Architecture** | **Operating Systems** | **Computer Software Engineering** |
| **Advanced Algorithms and Paradigms** | **Software Systems ENGINEERING** | **Computer System Structure** |

# SKILLS

* O/S Platforms: Linux, Windows, MacOS.
* Application Platform: Peoplesoft, SAP BASIS
* Programming: C/C++, Java, Python, Bash, Batch Scripting, PowerShell.
* Database: 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, RISCV, ARM.
* Methodologies: Agile, Scrum.
* Tools**:** Conda, Docker, Git, CMake, QuickBuild, Doxygen, Streamlit, Jira.

# EXPERIENCE

**Graphics PnP Software Intern Intel Corporation Feb 2022 - Aug 2022**

* + - Proven ability 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 supporting 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 conducting the requirements.
  + Instrumental and proven record in using technology for significant business benefits.

# PROJECTS

* **GPU Benchmarking 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, using 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**.
* **E-Signature Management System for CalPERS:** Architected a sophisticated E-Signature portal leveraging Python. Initially, converted handcrafted signatures to grayscale, transformed them into binary matrices, and subsequently utilized Canny Edge Detection to eliminate noise. Efficiently stored the processed signatures in an SQL database, enabling smooth PDF document signing.

**Features:** *Bulk Signing, Multi-Factor Authentication, Document Version Control, Secure Signature Storage.*

* 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.
* A Dashboard for Canines Suffering from CHF:Designed andCrafted a dashboard using Streamlit and Scikit-learn in Python that classifies the current condition of canines suffering from Congenital Heart Failure using Random Forrest Classifier with **98% success rate.**

**Features***: Patient Profile Overview, Treatment Progress Matrix, Symptoms Logger, Health Risk Assessment, Medical Report Generator*.