# Mrugesh Master

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## OBJECTIVE
Graduate Student seeking Software Developer Intern position for Winter 2021 with 3 years industrial experience.

## EDUCATION
**M.S., Software Engineering,**                                                                                                 **Dec 2021**
San Jose State University, San Jose, CA, GPA: 3.56
**B.E., Computer Engineering,**                                                                                                **Jun 2016**
A.D. Patel Institute of Technology, Anand, Gujarat, IN, CGPA: 8.08

## TECHNICAL SKILLS
**Programming Languages:** Python, Java, Design Patterns, PL/SQL, HTML, JavaScript
**Software:** Agile Methodologies, Git, Docker, YOLOv3, Kubernetes
**SAP Tools:** SAP Business Objects, SAP Data Services, Web Intelligence Reporting Tool, Crystal Reports

## PROJECTS
**Traffic Governance System,** SJSU
- Created a Web Application and API with Flask (Python), YOLOv3 and OpenCV to detect the number of vehicles at a crossroad junction and accordingly set the signal timers for the lanes to reduce traffic congestion.
- Published the application as a Docker image and hosted the image on IBM Kubernetes platform.

**CLI Cafe Application,** SJSU
- Developed CLI Java Application to demonstrate Composite, Decorator, State, Proxy and Observer Design Patterns.

**Modification of KVM Hypervisor,** SJSU
- Analyze the number of exits occurring in a VM and the CPU cycles consumed during exits.
- Display number of exits and CPU Cycles stored in registers with CPUID Instruction.

## EXPERIENCE
**System Engineer,** Tata Consultancy Services, Mumbai, IN                                            **Dec 2019 - Sep 2016**
- Constructed ETL Pipelines to load data from flat files/Oracle DB to Oracle DB using SAP Data Services and optimize existing pipelines for reduced load times.
- Optimized SCD2 dimensional data-loading time from 3 hours to 45 mins.
- Automated monthly data-loading with monitoring alerts to reduce human dependency and errors.
- Managed access rights, promotion management and system maintenance between Production, Development and Testing Environments
- Implemented Kerberos authentication across multiple SAP BO servers to enforce security.
- Planned and executed Standby drill and Disaster Recovery drill for SAP Business Objects landscape to ensure 100% readiness of alternate systems in case of any disasters.
- Trained 10+ employees on understanding of project landscape, security measures of SAP BO and optimization of ETL processes for SCD-1 and SCD-2 data-loading.

## ACTIVITIES
**Training and Placement Student Coordinator,** A. D. Patel Institute of Technology
- Mentored and Prepared fellow students for interviews.
- Served as a liaison between students and recruiters to ease the hiring process.

**College Technical Festival Coordinator,** A. D. Patel Institute of Technology
Designed and organized tech events for annual college festivals.