

# CHANDAN KUMAR

## Software Test Engineer

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## Experience

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Experience in Automation Testing using Selenium with Java in a Hybrid Framework, and in the Automotive domain performing Manual, Unit and Integration testing with VectorCAST tool.

## Professional Summary

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- Experienced Software Test Engineer with **4.10** years of experience, including 2 years in **Automation** and **Manual Testing** and 2+ years in **Unit**, and **Integration Testing**.
- Hands-on experience in **Automation Testing** using **Selenium WebDriver with Java**, working in a **Hybrid Framework** that combines **Keyword-Driven** and **Data-Driven** approaches, utilizing tools like **TestNG**, **Cucumber BDD**, and **Maven**.
- Strong hands-on experience in **Manual Testing**, **Unit Testing**, and **Integration Testing**, ensuring thorough validation of software applications.
- Proficient in maintaining software systems by identifying and correcting defects.
- Expertise in review and re-testing, requirement analysis, script and test case development, defect logging in **JIRA** and maintaining comprehensive test data and records.
- Collaborates effectively with software development and testing teams.
- Experience in **API testing** using tool **Postman**.
- Basic knowledge of **SQL** and database querying.
- Committed to professional growth and staying updated with industry trends and advancements in software testing.

## Skills

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**Programming Language:** C and Java

**Automation Tools & Frameworks:** Selenium WebDriver, TestNG, Cucumber BDD, Maven, Postman, Hybrid Framework (Keyword + Data-Driven), Appium (Mobile Automation)

**Core Competencies:** Automation Testing, Manual Testing, API Testing (Manual), Integration Testing and Unit Testing

**IDE Tools:** Eclipse, Visual Studio, Source Insight, Code Blocks

**Embedded Testing Tools:** VectorCast, MAIST, Parasoft

**Database:** Basic **SQL** querying

**Communication Protocol:** UART, SPI, I2C and CAN

**Version Control and Project Management Tools:** SVN, GIT and JIRA

**Operating Systems:** Linux and Windows

## Work History

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### Ficosa India Engineering Center, Hyderabad

August, 2023 – July 2024

#### Software Test Engineer

- Compilation and Test Execution (Integration and Unit Testing) on source code provided by client using respective testing tools.
- Unit test execution on the internal tool (MAIST) follows statements/MCDC coverage based on ASIL levels and adheres to ISO 26262 standards.
- Involved in preparing Unit Test & Integration Test Reports after completion of execution and presenting it to client.
- Performed Manual Testing, including test case execution, defect reporting, and verification for embedded automotive systems.
- Involved in fixing raised bugs while Unit & Integration testing
- Involved in analyzing and planning project deadlines based on attributes provided by client.
- Involved in client coordination on weekly status basis.

### Cyient Limited, Hyderabad

July, 2019 – July, 2023

#### Software Test Engineer

- Developed and maintained automation scripts using Selenium WebDriver with Java in a Hybrid Framework (Keyword + Data-Driven), integrated with TestNG and Maven.
- Implemented Page Object Model (POM) for better test modularity and reusability.
- Managed test data using Apache POI and validated results using assertions in TestNG.
- Responsible for Internal review process by providing review comments and coordinating with appropriate engineers.
- Involved in Release planning and activities on every sprint level.
- Mentoring team members on daily basis blockers in Unit and Integration testing.

## Projects

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### Project 1

**Title:** Human Resource Management System (HRMS)

**Role:** Test Engineer

**Testing Approach:** Automation Testing using Selenium WebDriver

**Environment:** Selenium WebDriver with TestNG Framework, Windows

#### Project Description:

HRMS is a web-based application designed to streamline core HR functions such as employee creation, attendance tracking, leave management, payroll, and bonus processing. The system allows users to create employee profiles, manage daily attendance, configure salaries, and generate monthly payroll reports in Excel format. It automates bonus calculations and integrates performance tracking, training, and benefits administration in a single platform.

#### Roles & Responsibilities:

- Wrote automation scripts and executed test cases using Selenium WebDriver.
- Designed and implemented Data-Driven and Hybrid Automation Frameworks using TestNG.
- Executed scripts on multiple browsers (Chrome, Firefox, IE) and environments

- Enhanced and maintained the existing automation framework for better scalability.
- Grouped test cases and generated detailed test reports using TestNG.
- Reported defects using a bug-tracking tool and collaborated with the development team to ensure fixes.

## Project 2

**Title:** Cyclone DDS

**Role:** Software Product Engineer

**Team Size:** 08

**Tools:** Parasoft 2023, Source Insight, and Visual Studio 2022, Git

### Project Description:

Cyclone DDS, is a cutting-edge middleware solution designed to facilitate seamless data communication and distribution in real-time systems in automotive.

### Roles & Responsibilities:

- Responsible for Unit Testing of different sub-modules like DDSI, DDSC and Functional Unit Testing on DDSRT sub-module using Parasoft tool.
- Developing test scripts as per the requirements.
- Analysis and review of test results.
- Interaction with client for the defects created and other technical queries.

## Project 3

**Title:** Unit & Integration Testing on ADAS Products

**Role:** Testing Engineer

**Team Size:** 20

**Tools:** Vector Cast SP3 2021, Source Insight, SVN repository, JIRA

### Project Description:

This project focuses on the development and execution of unit and integration tests for Advanced Driver Assistance Systems (ADAS) products. ADAS products are designed to enhance vehicle safety and driving experience by providing real-time information, warnings, and automatic responses to potential hazards. Our aim is to ensure the reliability, functionality, and performance of these systems through rigorous testing.

### Roles & Responsibilities:

- Set up test environments on MAIST (UT) and Vector Cast (IT).
- Compiled and executed tests on a given source code using appropriate testing tools.
- Carried out integration tests in Vector Cast, ensuring Function/Function Call Coverage for requirements, interface, and coverage-based testing, including Boundary Value Analysis and Fault Injection.
- Identify, document, and resolve defects found during testing to enhance the quality of ADAS products.
- Ensure that all testing activities comply with industry standards and regulatory requirements.

## Education

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**Biju Patnaik University of Technology, Odisha**

Bachelors in Technology, Electrical Engineering

August 2012 – August 2016

CGPA: 6.54/10

## Certification

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- Certification from **VECTOR INSTITUTE (Embedded System), Hyderabad**
- Core Java for Automation Testers- From Udemy
- Selenium WebDriver with Java – From Udemy
- Cucumber BDD with Java – From Udemy

## Personal Details

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**Languages Known:** English, Hindi

**Location:** Hyderabad, Telangana – 500038

### Declaration:

I, Chandan Kumar, hereby declare that the information provided above is true and correct to the best of my knowledge and belief.

Signature

Place: Hyderabad

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CHANDAN KUMAR