

PRATHAM SINGHAL





Software Engineer

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SKILLS

Java	TypeScript	Shell Scripting
Kubernetes	Terraform	Docker
Cypress	SQL	Selenium
Git		
AWS	GCP	Azure
Jenkins		
Continuous Integration	GitLab	
Continuous Deployment	IntelliJ	
API Testing	Customer Engagement	
Technical Discovery	Jira	Agile
Data Structures and Algorithms		
Object Oriented Programming		
Design Patterns	Test Automation	
Linux Networking	TestNG	
NodeJs	PostgreSQL	

CERTIFICATES

	Data Structures and Algorithms
	Terraform Basics Training Course
	CKAD Level Kubernetes from KodeKloud
	Go Programming Language

EDUCATION

Bachelor of Technology, Electronics and Telecommunications Bharati Vidyappeth (deemed to be) University 07/2016 - 10/2020	GPA 9.84 / 10.0
12th Sri Guru Nanak Public School 2015 - 2016	GPA 86 / 100
10th Sri Guru Nanak Public School 2013 - 2014	GPA 8.2 / 10

SUMMARY

A passionate software engineer with over **3 years of experience** in developing and testing SaaS-based applications. Proficient in software testing automation using **Cypress** and **Selenium** frameworks and **Java** and **TypeScript** programming languages. Experienced in **Kubernetes**, **Docker**, and **CI/CD** pipelines. A self-starter who is always eager to learn new technologies and solve challenging problems.

PROFESSIONAL EXPERIENCE

Software Engineer

Synopsys

01/2021 - Present

Build high-quality, secure software faster with their application security testing tools and services.

- Developed and tested **SaaS**-based applications using **Java** and **TypeScript** programming languages keeping the customer-first mindset.
- Deployed and managed the applications using **Kubernetes**, **Docker**, Cloud SDK of GCP, AWS, Azure, and Infrastructure Automation with Terraform.
- Designed, executed, and maintained automated test cases for end-to-end testing, API testing, and UI testing using **Cypress** and **Selenium** frameworks.
- Wrote automated test scripts in Java following the **S.O.L.I.D.** design principles and standard **design patterns**.
- Automated **REST**, **GRPC** and **GraphQL** APIs using tools such as Postman, SoapUI, and RestAssured.
- Led the POC of migrating **Selenium** test cases from on-premise machines to **Kubernetes clusters**, boosting test efficiency by 50% and cutting the test execution time by 30%. I handled the **design**, **implementation**, and **execution** of the migration process, as well as the coordination with the stakeholders and the resolution of any issues..
- Increased test coverage by 40% and reduced the number of defects by 60%.
- Created and managed **DevSecOps** pipelines using **Jenkins** and **Gitlab CI/CD** from scratch to automate the software delivery process keeping the security as priority.
- Contributed to the **development of several features** and **bug fixes** for different software projects.
- Coordinated closely with **peers** and even **senior engineers** and **coached** them as needed.
- Enabled the database connectivity with the **JDBC** for database testing.

Student Intern

Newton School

08/2020 - 01/2021

- Acquired advanced knowledge of **JavaScript**, the most widely used programming language for web development.
- Solved over 300 **data structures and algorithms** problems, improving my logical thinking and problem-solving skills.
- Gained hands-on experience in the latest web technologies and frontend frameworks such as **React JS** and **Express JS**, developing dynamic and interactive web applications
- Applied modular design of programming to reduce the problem complexity, following the best practices and standards of software engineering.

RPA Intern

ACT 21 Softwares

06/2019 - 08/2019

- Performed data pre-processing for **machine learning** projects, using various techniques and tools to **clean**, **transform**, and **analyze** the data.
- Automated tedious and repetitive tasks using UiPath software, a leading platform for robotic process automation.
- Reduced more than 30 hours of manual testing for each automation task, improving the efficiency and accuracy of the testing process.

STRENGTHS

Analytical Problem Solving



I excel at solving complex problems using my analytical and logical skills. I have a track record of troubleshooting and debugging issues effectively and efficiently, using data and evidence to support my decisions.

Team Collaboration



I am a team player who can collaborate and coordinate with diverse teams. I have a history of contributing to the team's objectives, sharing my knowledge and expertise, and learning from others.