

# Abhishek Kumar

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Results-driven **Build and Release Engineer** with expertise in **CI/CD** pipeline development, **Python** scripting, and **software delivery optimization** using tools like **Jenkins**, **Bitbucket**, and **Jira** to streamline processes, with additional knowledge of **Docker** and **Kubernetes**.

## Skills

- **Tools & Technologies** : Jenkins, Bitbucket, Git, Jira, Confluence, REST API, Coverity, Docker, Kubernetes, Qt
- **Languages**: Python, Groovy, Java, C, JavaScript, SQL

## Experience

### Engineer II Software Design

Jan 2023 – Present

*Microchip Technology - Build and Release Engineer*

*Hyderabad, India*

- Extensive experience in designing and implementation of **continuous integration and continuous delivery/deployment(CI/CD)** using **Jenkins**.
- Developed and integrated a **build system** with **Jenkins**, **Python**, **Bitbucket**, **Jira** and **Confluence**.
- Implemented **shared library** in **Jenkins**. Optimized pipeline efficiency by centralizing common functionalities, reducing repetition by **25%**.
- Enhance Installer and fasten the installer creation by creating **CI/CD pipeline** using **Jenkins**, covering stages like **building**, **staging** and **testing**, cutting processing time by **50%**.
- Integrated **Bitbucket** and **Coverity** for static **code analysis** into the system with **Jenkins** and automated **Jira** ticket creation through **Python**.
- Designed and developed testing pipelines for both **Windows** and **Linux** operating systems, leveraging parallel testing flows across multiple OS flavors to reduce testing time by **87.5%**.
- Managed **version control** in **Bitbucket**, implementing effective branching strategies and rigorous code reviews, resulting in a **15%** decrease in code errors and improved quality.
- Automated repetitive works by creating **CI/CD** pipelines or using **Python** scripts, resulting in increase in work efficiency and reducing manual errors.

### Web Developer

July 2021 – Dec 2021

*Vedant Asset - Full Stack Developer*

*Ranchi, India*

- Design and implemented web application using **HTML**, **CSS**, **Bootstrap** and **JavaScript** for Customer Service Point(CSP) Management System.
- Architecture the **SQL** database and implemented the **RESTful API** using **Spring Boot**.
- Managed **version control** for the project using **Git** and ensure smooth integration across different developers

## Education

### National Institute of Technology

Sikkim, India

*Masters of Technology in Computer Science & Engineering*

*2021 – 2023*

### Biju Patnaik University of Technology

Odisha, India

*Bachelors of Technology in Computer Science & Engineering*

*2017 – 2021*

## Projects

### Energy Efficient Workflow Scheduling in Cloud Computing Systems using PSO | *Python*

- Developed **time, cost and energy efficient** workflow scheduling algorithm using **Particle Swarm Optimization**, resulting in a **25%** reduction in computational overhead in existing cloud computing systems. [\[Published\]](#)
- Implemented **Quantum-inspired Particle Swarm Optimization**, enhancing the efficiency of workflow scheduling by **60%** for complex cloud computing tasks.

### The Lilly | *JavaScript, MongoDB, Arduino, C++*

- Developed a **smart plant monitoring system** using **Arduino**, integrating **humidity**, **temperature**, and **moisture sensors** to improving decision-making in plant care plant health in real-time.
- Designed a **dashboard** with **JavaScript**, visualizing sensor data to support accurate environmental tracking and **decision-making**.

### Outliner | *JavaScript, Jenkins, Git*

- Developed a **UI debugging plugin** using **JavaScript** for streamlined debugging of UI elements, reducing debugging time by **35%** for front-end developers.