

# Ashish Chhabra

• Rochester, NY • ac4922@rit.edu • +1(585)967-8589 • <https://www.linkedin.com/in/ashishchhabra0611/>

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## Education

**Masters in Software Engineering**, Rochester Institute of Technology (RIT), Rochester, NY Expected: May 2020  
Intended specializations: Algorithms, Machine Learning (Current GPA- 3.96)  
**Bachelor of Engineering in Electronics & Communication**, RGPV University, Bhopal, India July 2012

## Experience

**Graduate Assistant, RIT, Rochester, NY** Sept 2018 - Present

- **Research:** Work on faculty research projects with primary focus on neural networks and computer vision for accurate object detection systems.
- **Course Assistant:** Collect data from various sources for the new course at RIT, collate them into a machine readable format and create visualizations to draw actionable insights using MS Excel, Python and R.

**DevOps Intern Cloud Technologies, Adobe Inc, San Jose, California** May 2019 – Aug 2019

- **Real Time Machine Learning:** Developed end to end framework to operationalize Real Time Machine Learning using Kubernetes, Docker, ONNX (model serialization format) and Restful Webservices to allow inferencing/scoring in real time.
- **Real Time Visualizations:** Designed and developed D3 JavaScript based Self Organizing Maps (SOM) visualization to show a user's journey on a website in real time. Further, converted into a google chrome extension for ease of use.

**Senior Software Engineer, Vuclip Inc, Pune, India** Feb 2015 – Aug 2018

- **Web Service Development:** Developed RESTful web services for BAAS - Vuclip's new service oriented architecture based Direct Carrier Billing Platform - using J2EE and Spring Boot to replace the existing monolithic backend system.
- **API Automation Framework:** Designed and developed the API automation framework for BAAS using Java, RestAssured and Spring Boot to define E2E Test and System Test strategies. Resolved the manual testing challenges and reduced the new product development time by 40% through 800 plus automation test cases executed within 30 minutes.
- **DevOps:** Implemented CI/CD capabilities as "Pipelines as Code" by defining a multi-branch Jenkins pipeline to automate deployment of web services using Jenkins, Ansible and Docker. Achieved Build-Test-Deploy-Certification strategy using Docker based test environments that increased the frequency of production deployments from bi-weekly to weekly.
- **Cloud Based Development:** Developed Cloud Functions and Cloud Dataflow Pipelines using Google Cloud Platform with Node.js and Java to define personalized user journeys for VIU - an Android and iOS based video application.
- **Real Time Analytics:** Developed an analytics environment based on ELK (Elastic Logstash Kibana) from the application logs produced in Kafka and Pub/Sub to provide real time analytics of a user's lifecycle for VIU OTT application.

**Automation Test Engineer, Amdocs, Pune, India** July 2012 – Feb 2015

- **UI Automation Framework:** Enhanced the UI automation testing framework for the web based CRM application using Selenium, TestNG, Java, BDD, Shell Script and integrated it with BrowserStack to achieve cross browser testing.

## Technical Skills

- **Languages:** Java, Python, JavaScript, Node.js, Vue.js, Groovy, Shell-Script, C++, SQL, HTML, CSS
- **Frameworks:** Spring Boot, J2EE, JSP, Ansible, TestNG, Rest-Assured, Spark, Selenium, Appium, Junit, JMockit
- **Technologies:** Kubernetes, Docker, Kafka, Redis, RabbitMQ, AWS, Google Cloud- DataFlow, Cloud Functions, Pub/Sub
- **Databases:** MYSQL, Google Bigquery, DynamoDB
- **Tools:** Jenkins, SOAP-UI, New Relic, Java Melody, Apache JMeter, Tableau, Amplitude, Google Tag Manager
- **Miscellaneous:** ELK Stack, Git, BitBucket, Tomcat, Maven, Gradle, BrowserStack, BDD

## Volunteer Projects

- **Paper Submission & Review System:** Developed a web-based paper submission & review system using Vue.js & Node.js
- **Jenkins Library:** Developed a customized Jenkins Library in Groovy to standardize implementation of Jenkins Pipelines in Maven projects, Google Dataflow Pipelines and Cloud Functions across teams at Vuclip providing fast CI integrations.
- **Streaming pipeline:** Implemented data streaming pipelines in Python to consume data from Kafka and write in MySQL and Google BigQuery at a speed of over 11K records per minute.
- **Chatbot:** Developed a chatbot service to provide structured interaction with VIU OTT.
- **Digital Marketing:** Used Google Tag Manager to implement Google Analytics as a part of Digital Marketing initiative.

## Honors and Awards

- **Presidential Award:** Given to Top 15 employees annually with a reward of USD 500 at Vuclip.
- **Best Employee:** For two consecutive years at Amdocs with a reward of INR 45,000.
- **Co-founder, Dorothy:** An NGO that promotes education of children in Indore, India.