

SHUBHAM AGARWAL

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SUMMARY

- A highly motivated professional with 7+ experience in designing, testing, and implementing scalable applications. Proven track record of increasing efficiency and reducing manual efforts through cross-functional collaboration
- Possesses in-depth industry experience in IT and advanced skills in developing algorithms using Python, Java, Kafka, GraphQL, Kubernetes, and Buildkite. Known for delivering high-quality code and highest code contributor in the organization

WORK EXPERIENCE

Geico, Lead Software Engineer (Austin, USA) Nov 2023-Present

- Spearheading the development of robust, enterprise-level applications aimed at streamlining the claims resolution process, resulting in a remarkable reduction of claim processing time from 10 days to a mere 5 hours
- Designing and developing Fraud Prevention model to prevent loss leakage due to fraudulent claims thereby estimating to save **\$301 Million** in loss leakage also reducing the turnaround time to catch fraudulent withdrawal from 24 hrs to 5 mins
- Designed and developed Fax feedback channel with the external vendor to send Fax to millions of customers of GEICO thereby saving around **\$5.3 Million** through compliance settlement. Primarily used Microsoft Azure for managing applications in GEICO.
- Designing an Activity Management System tailored to automate the requisite activities integral to the claims processing workflow

Wayfair, Senior Software Engineer (Austin, USA) Aug 2021-Oct 2023

- Developed large-scale applications that can handle six-fold increase in volume, tailored for the international supply chain industry
- Designed an international cross-docking system with a 95% strike-through rate to implement Geo-Sort, a technology aimed at saving **\$1 billion** by reducing long zone shipments and lowering incidence rates using AWS heavily to manage services
- Successfully implemented a forward position guidance algorithm that increased the spread of warehouses from 2 to 6, thereby improving overall efficiency and making sure item is present close to the end user
- Contributed to a significant increase in the rate of acceptable auto-generated container load plans from 3% to an impressive **95%**
- Eliminated the manual creation of Kafka schemas by developing a Kafka schema generator from application objects, streamlining the overall development process and exposed it using GraphQL mutations
- Maintained a legacy framework developed using Python, Kafka, PHP, React, and MySQL for container optimization, ensuring that it continues to meet the needs of the business while remaining secure and reliable

Dassault Systemes, Software Engineer Intern (Boston, USA) Jan 2021-May 2021

- Developed 3D simulation software to simulate real-life use cases like the spread of the Covid-19 virus inside the car
- Performed automation testing using Froglogic Squish for PowerDelta application under Simulia and reported bugs using JIRA

Accenture, Software Engineer I (Hyderabad, India) Aug 2016-Jul 2019

- Successfully led a team of six in the development of a Page Object Model framework, resulting in an annual cost savings of approximately **\$189,000**. The project involved converting a licensed UFT framework into an open-source automation solution in Selenium using Java, which improved the efficiency and reliability of automated testing
- Performed statistical analysis of Jenkin jobs in the CICD pipeline by developing an interactive Chatbot using Java. This innovative solution saved valuable time and enhanced team collaboration, leading to improved overall project performance
- Developed a Blue Prism's Robotic Process Automation framework using Python, resulting in a substantial savings of **60 working hours** per month. This framework automated the data quality check reports of **1.5M+** records, significantly reducing manual efforts and improving accuracy

EDUCATION

Master of Science in Computer Science

New Jersey Institute of Technology, New Jersey, USA

Bachelor of Engineering in Electronics and Communications

Nagpur University, Maharashtra, India

TECHNICAL SKILLS

Programming: Python, Java, nodejs, Javascript, PHP, C, SQL

Data management: MongoDB, Elasticsearch, BigQuery, GCP, GraphQL, MySQL, SQL Server, Oracle SQL, Redis, CouchDB

Cloud Platforms: Microsoft Azure, Amazon Web Services (AWS), Google Cloud Platform

Tools: PyCharm, Kafka, Buildkite, PagerDuty, Eclipse, Selenium, Blue Prism, SAP Crystal Report, JIRA, HP Quality Center, GIT, Jenkins, Saucelabs, Jupyter, Spyder, Squish, PowerDelta, Rally, Microsoft Bot Framework, Microsoft Azure's Cognitive Service

Expertise: Data Structures and Algorithms, Version Control, Automation Testing, API Development, Agile, SDLC

PROJECTS

United Parcel Service, Software Developer Sep 2020-Dec 2020

- Created a chatbot for provisioning and deploy windows in a device by using Microsoft Bot Framework and Java
- Predicted meaning and extracted relevant information from user response using Microsoft Azure's Cognitive Service