

Shazia Parveen

+1(412)-608-7635 | shaiz.sit@gmail.com | [LinkedIn](#) | GHC 2023 | [My Portfolio](#)

EDUCATION

Carnegie Mellon University, Pittsburgh, PA Master of Software Engineering Coursework: Requirement Gathering for Scalable Systems, Software Architecture, Quality Assurance and Management, Applied Machine Learning, AI Engineering, Cloud Computing, Software Project Management, Scalable systems, Practical Programming and Data Analysis with Python Siddaganga Institute of Technology, Bengaluru, IN Bachelor of Engineering, Computer Science and Engineering Coursework: Data Structures, Analysis, and Design of Algorithms, Distributed Operating Systems, Database Systems, Computer Networks	<i>Aug 2021 - Dec 2022</i> GPA: 3.8/4.0 <i>Aug 2007 - Jun 2011</i> (Top 10% of the graduating class) GPA: 9.0/10.0
---	---

EXPERIENCE

UPS Senior Software Development Engineer / Alpharetta, GA <ul style="list-style-type: none">Developed and enhanced core functionalities of route optimization and dispatch integration, serving 11 million+ global usersDemonstrated expertise in crafting and maintaining scalable microservices, resulting in a substantial 50% reduction in delivery times, saving an estimated \$300 million annually and 10 million gallons of fuel Skills: Microservices, RestAPI, Cloud Computing, Distributed Systems	<i>Aug 2023 - Current</i>
Deloitte Senior Software Engineer Bengaluru, India <ul style="list-style-type: none">Led a team of five to develop and deliver seven of Transamerica's internal tools designed to verify extremely complicated insurance product-specific business logic, enhancing operational efficiency and accuracyCoordinated with clients and cross-functional teams to transform business requirements into technical solutions and served as a subject matter expert on the product calculation module, ensuring alignment between business goals and technical implementationCreated REST APIs for the pre-processing of submitted insurance applications, resulting in the verification of underwriting conditions before claim approvals. This initiative led to a remarkable 80% increase in the claim approval rate while significantly reducing manual workDesigned a scalable pipeline to automate data scraping and testing of Transamerica's admin systems, yielding a 30% reduction in test execution costs and a substantial increase in return on investment (ROI)Developed, integrated, and provided support for Aflac Web applications, Enrollment Systems, and Field Force Enrollment Tools (SmartApp, SmartApp Next Generation (SNG), and Aflac Web Enrollment Systems (AWES)) Skills: Web Development, Windows Application Development, Backend Development, Cloud Computing, Docker, Containers, Microservices, Load Balancers, Distributed Cache, Agile, Requirement Gathering, Problem Solving	<i>Mar 2015 - July 2021</i>
Cognizant Developer Bengaluru, India <ul style="list-style-type: none">Designed and developed responsive analytics dashboards for data analysis and visualizationBuilt and integrated application components of a Collaborative Sales Planning software application (iAlign) Skills: Web Development, HTML5, JavaScript, Kendo UI, jQuery, MySQL, Bootstrap	<i>Jun 2014 - Feb 2015</i>
Tata Consultancy Services Systems Engineer Bengaluru, India <ul style="list-style-type: none">Collaborated within a 50+ member team to develop and enhance a web application for American Express's customer service solution, resulting in a significant 30% improvement in customer experience Skills: Web Development, Backend Development, Software Development Life Cycle (SDLC) Process, Documentation, SharePoint, Initiatives	<i>Oct 2011 - Jun 2014</i>

OTHER RELEVANT EXPERIENCE

Surefront, Capstone Project / Pittsburgh, PA <ul style="list-style-type: none">Led a team of five professionals to seamlessly integrate a data syndication service within the Surefront platform, boosting product listings by 30% and increasing monthly sales revenue by 10% for our clients Skills: Python, Django, ReactJS, AWS lambda, GitHub, CircleCI, Project Management, Risk Management, Quality Assurance, Quality Control, Requirements Gathering, System Design, System Architecture, System Integration, System Testing, System Deployment	<i>Jan 2022 - Dec 2022</i>
Machine Learning in Production Carnegie Mellon University <ul style="list-style-type: none">Spearheaded the development of a highly available and scalable movie recommendation service designed to handle a large volume of data and user requestsBuilt and deployed a machine learning model for implicit collaborative filtering, processing data from a Kafka stream with 30K+ movies, 1M users, and 100+GB of historical dataLeveraged Kubernetes and load balancing to ensure high availability and scalability of the inference service, with the ability to handle ~10 user RPS, and used Crontab to automate regular updates of the model with the latest data from the Kafka logImplemented monitoring and alerting with Prometheus and Grafana, tracking key performance metrics such as request count, latency, and score to ensure optimal service performance and timely issue resolution Skills: Python, Jupiter Notebook, DVC, Github, Minikube, Docker, Load Balancer, FastAPI, MySQL, CircleCI, Grafana, Prometheus	<i>Aug 2022 - Dec 2022</i>
Exploratory Data Analysis Carnegie Mellon University <ul style="list-style-type: none">Utilized Python for data manipulation, analysis, and insight extraction from various complex data formatsConducted database queries and web scraping to compile a comprehensive list of names for machine learning-driven text analysisEmployed Pandas for ETL tasks, data cleaning, integration, and correlation analysis on sports-related Wikipedia data Skills: Python, Panda, ETL, Web Scraping	<i>May 2022 - Aug 2022</i>
Stream Processing with Kafka and Samza Carnegie Mellon University <ul style="list-style-type: none">Implemented a Kafka Producer to generate data streams based on provided trace filesThese streams simulated real-time driver location updates and client ride requests, which were processed on a remote AWS Samza clusterAdditionally, I wrote Samza code to consume these streams and implemented an algorithm to match clients with drivers based on their scores and proximity, resulting in the successful creation of a driver-matching service Skills: EC2, Samza cluster, EMR, Kafka, TDD, Terraform	<i>Jan 2022 - May 2022</i>
Iterative Processing with Spark Carnegie Mellon University <ul style="list-style-type: none">Used Spark for Data Exploratory Analysis on a Twitter Social Network datasetImplemented and ran the PageRank algorithm on the Twitter dataset to find the most influential users Skills: Scala, Zeppelin for Apache Spark, Spark on HDInsight, Databricks, Yarn, Spark UI	<i>Jan 2022 - May 2022</i>
Food Ordering Application Carnegie Mellon University <ul style="list-style-type: none">Developed a user-friendly food ordering app, uniting React frontend with a Java backend, featuring dynamic menus, order placement, and seamless integration for a smooth customer experience Skills: Java, PostgreSQL, JavaScript, CSS, HTML	<i>Mar 2021 - Aug 2021</i>

SKILLS AND CERTIFICATIONS

- Languages:** C#, Java, Python, SQL, JavaScript, C, C++, GraphQL, Scala
- Tools and Technologies:** Kubernetes, GCP, AWS, Azure, Boto3, Git, Pandas, Flask, Figma, NoSQL Databases, Jenkins, Jira, PostgreSQL, Selenium, PySpark, Ixml, Pytest, Django, CircleCI, Cypress, Jest, Postman, Micro-services, System Design, Distributed Systems, Web development, JaCoCo, PITest, PubSub, Kafka, Docker, DataStore, FireStore
- Certifications:** AWS Certified Cloud Practitioner, Hadoop (Linkedin), Deloitte Industry Proficiency Program - Banking & Financial Services, Machine Learning by Andrew NG (Coursera)