

# Sambhav Shrestha

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## EXPERIENCE

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### **Tarifica**, Manhattan, NY

Software/Data Engineer | May 2023 - Present

- Building and maintaining 300+ web scrapers using Python and BeautifulSoup for capturing raw data and transforming them to relevant SQL tables using PostgreSQL,
- Creating ETL and data pipelines using Flask framework to filter only the right amount of data and sending them for data analysis and visualizations,
- Renovating old legacy code to increase efficiency, readability, and accuracy of output data by employing various testing methods, adding new functions and, creating documentations

### **Amazon**, Seattle, WA

Software Development Engineer | July 2022 - Mar 2023

- Used AWS services like EC2, Lambda, Cloudwatch to design, develop and monitor live microservices running on Amazon-GO and Just-Walk-Out stores,
- Took sole ownership of project to upgrade and migrate a service into AWS, reducing cost, latency and tickets, creating new metrics and alarms, and automating the deployment to production,
- Programming on Java, Kotlin, Python, TypeScript, Ruby in a linux environment to deliver sprint tasks with high quality and on time

### **Microsoft Research**, Manhattan, NY

Research Fellow | June 2021 - July 2021

- One of 12 students selected and mentored by the leading scientists and principal engineers at MSR NYC to research topics in Machine Learning and Data Science,
- Researched papers and publications on statistical data analysis and performed replication, and extension on the same using R to generate new correlations,
- Created regression and machine learning models in R and presented the final results in beautiful visualizations

## EDUCATION & SKILLS

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### **St. Joseph's University**, Brooklyn, NY

BS in Computer Science and Mathematics, May 2022 | Summa Cum Laude | **GPA 3.97**

- Algorithms & Data Structures, Databases, Software Engineering, Calculus, Linear Algebra

### **Programming Languages and Frameworks**

- Python, Java, Kotlin, R, Bash, JavaScript, TypeScript, MySQL, PostgreSQL, C++
- AWS, Linux, GCP, Docker, Flask, REST, Spring, React, Django, Git, CI/CD

## CERTIFICATIONS & PROJECTS

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### **Google Cloud Fundamentals**

- Completed 5-course specialization focused in GCP Compute, Kubernetes, and App engine; deployed and managed VMs in cloud, set up load balancer, and created database in Cloud SQL and BigQuery.

### **Neural Networks and Deep Learning**

- Built, trained, and implemented fully connected deep neural networks; identified key parameters in a neural network's architecture and applied deep learning to build a handwritten digit identifying app.

### **Sentiment Analysis from Twitter** (R, Shiny, ggplot):

- Designed a dashboard that fetches tweets based on keyword and analyzes sentiment using lexicon approach; Used functions to filter raw data and categorize them into different sentiments

### **Road Racer Java Game** (Java, Spring):

- Created a simple obstacle avoiding road racing game using Spring and Java; Added a feature to increase difficulty by increasing the speed of the car with increase in users score