

Shweta Kumari

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Computer science graduate with three years of professional experience in designing & developing backend applications, REST APIs, data pipelines, and internal developer assistive tools with proficiency in microservices and large-scale applications.

Education

University of Southern California

Master of Science in Computer Science

Aug 2022-May 2024

Los Angeles, USA

Guru Gobind Singh Indraprastha University

Bachelor of Technology in Computer Science and Engineering.

Aug 2015-May 2019

New Delhi, India

Technical Skills

Programming Languages: Go, Python, C++, Java, PHP, HTML5, CSS3, Javascript, AngularJS

Tools & Technologies: Jenkins, Git, Docker, RabbitMQ, Redis, Postman, Kibana, Datadog, Jira, Linux

Databases: MySQL, Cassandra, PostgreSQL, MongoDB, SQLite

Cloud Platforms: AWS (S3 & DynamoDB), GCP

Skills: Agile, Back-end, Micro-services, CI/CD, SCRUM, Open Source, Unit Testing

Experience

New York Life Insurance Company

Software Engineer Intern

Jun 2023-Aug 2023

New York, USA

- Implemented data security with controlled access and enforced authentication protocols for document type accessing rights.
- Automated routine access rights updates for various document types, leading to a **25%** reduction in manual workload.

MakeMyTrip

Senior Software Engineer

Nov 2021-Jul 2022

Gurugram, India

- Enhanced user cab bookings backend and network architecture, resulting in a **50%** performance boost and fewer network calls.
- Integrated multi-cluster Kafka for vehicle bookings, leading to a **40%** faster response time through parallel processing.
- Streamlined services to optimize payment transactions, resulting in a **15%** reduction in failure rates.

Sendinblue (is now Brevo)

Software Engineer

Dec 2020-Oct 2021

Noida, India

- Optimized MongoDB queries, achieving a **30%** database load reduction using compound indexes and projections.
- Developed a CRM system with user-facing pipelines enabling custom features, leading to a **20%** increase in user retention.
- Implemented API test cases for performing automatic code sanity when the project is deployed using Jenkins and Rancher.

IndiaMart Intermesh Ltd

Associate Engineer

Jun 2019-Nov 2020

Noida, India

- Created an in-house **Dynamic Image Resizing Service** with CDN and load balancing, scaling to handle a **million** daily requests.
- Utilized Go concurrency and RabbitMQ to trim image upload service execution time from **400ms to 40ms** in a distributed system.
- Integrated AWS S3 and Dynamo DB for services and wrote scripts for achieving automatic error reporting during network downtime.

Projects

- Ticketmaster Booking Application** | AngularJS, NodeJS, Typescript, GCP ([Project Link](#))

Built a booking app offering event search, filtered results, autocomplete, sorting, favorites, and low-latency parallel artist data retrieval.

- Procedure for Synchronizing User Information in Go** | Go, RabbitMQ, Docker, Containers, MySQL, Postgres, Cassandra
Reduced unmatched data by **80%** by a Go cron job utilizing goroutines to synchronize non-synced user data across multiple databases.

- API Documentation Tool** | React, Python, Swagger, SQLite, GitLab

Leveraged the open-source Swagger tool to establish a centralized platform for creating, managing, and versioning API documentation.

- Wifi Data Leakage Detection** | Network Security, Wireless Networks, Traffic Pattern Analysis ([Publication](#))

The paper outlines a method to deduce user behavior from encrypted wireless network activity without compromising encryption. It emphasizes the risk of periodic app traffic patterns, underscoring the need for improved wireless communication security.

Leadership & Activities

- Presented **Wifi Data Leakage Detection** paper at the IETET conference and received the **Best Paper Award** among 150 teams.
- Led the team as Squad Leader at Sendinblue, conducting standups, technical talks, and organizing Ramp-ups for new joiners.
- AnitaB.org Grace Hopper Celebration (GHC) 2023 and 2022** attendee. Mentor for **Women In Engineering**.
- Initiated Go training workshops, equipping employees with best practices for application in their respective projects.