

# Shweta Kumari

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

## Education

### University of Southern California

Aug 2022-May 2024

Master of Science in Computer Science (GPA: 3.6/4.0)

Los Angeles, USA

Relevant Coursework: Analysis of Algorithms, Database Systems, NLP, Web Technologies, Information Retrieval, Advance Mobile Games

### Guru Gobind Singh Indraprastha University

Aug 2015-May 2019

Bachelor of Technology in Computer Science and Engineering (GPA: 9.4/10.0)

New Delhi, India

## Technical Skills

**Programming Languages:** Go (Golang), 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

Jun 2023-Aug 2023

Software Engineer Intern

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

Nov 2021-Jul 2022

Senior Software Engineer

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)

Dec 2020-Oct 2021

Software Engineer

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

Jun 2019-Nov 2020

Associate Engineer

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** | Angular, Node.js, 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 Golang** | Golang, 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, Front-end development

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.

## 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** member & attendee. **SWE** member. **WE23** attendee. Mentor for **WIE**.
- Initiated Go training workshops, equipping employees with best practices for application in their respective projects.