

Shweta Kumari

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

Education

University of Southern California

Aug 2022-May 2024

Master of Science in Computer Science (GPA: 3.75/4.0)

Los Angeles, USA

Relevant Coursework: Analysis of Algorithms, Database Systems, Web Technologies, Information Retrieval and Web Search Engines, Applied Natural Language Processing, Security and Privacy in Informatics, Advanced Mobile Devices & 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

Experience

New York Life Insurance

Jun 2023-Aug 2023

Software Engineer Intern

New York, USA

- Implemented data security by establishing controlled access and enforcing authentication protocols for document access.
- Automated the manual procedure for updating document access rights, resulting in a **25%** reduction in 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 across platform, 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.

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, Restful APIs

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.