Shweta Kumari

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Software engineer with over four years of experience 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**: 3.77/4.0)   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 Company   **July 2024-Present**
Software Engineer

- Developing scalable and reusable software applications with a focus on API design for NYL's client communication platforms.
- Building a digital notification system that enhances user experience, drives transaction growth, and minimizes client support calls.

Tesla, Inc.   **Jan 2024-May 2024**
Software Engineer Intern   Fremont, CA

- Implemented Airflow pipelines and automated scripts, reducing manual efforts by **60%** in supporting supply chain analytics.
- Developed a scalable web application for Tesla SIEs, reducing load time from **minutes to seconds** for efficient user management.
- Improved supplier scorecard functionality, implemented Microsoft M2M authentication for APIs, and optimized Airflow infrastructure.

New York Life Insurance Company   **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%** reduced 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 platforms, resulting in a **15%** reduction in failure rates.

Sendinblue   **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 to perform automatic code sanity when the project was 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 with load balancing and scaling to handle a **million** daily requests.
- Reduced image upload service time from **400ms to 40ms** using Go concurrency and RabbitMQ in a B2B e-commerce platform.
- Integrated AWS S3 and Dynamo DB for microservices and achieved automatic error reporting during network downtime.

Technical Skills

Programming Languages: Go (Golang), Python, C++, Java, PHP, HTML5, CSS3, Javascript, AngularJS, React.js
Tools & Technologies: Jenkins, Git, Docker, RabbitMQ, Redis, Postman, Kibana, Datadog, Jira, Linux
Databases: SQL, NoSQL, MySQL, Cassandra, PostgreSQL, MongoDB, SQLite
Cloud Platforms: AWS (S3 & DynamoDB), Google Cloud (GCP)
Other Skills: Agile, Back-end, Micro-services, CI/CD, SCRUM, Open Source, Unit Testing, RESTful JSON APIs

Projects

- **Ticketmaster Booking Application** | Angular, Node.js, Typescript, GCP
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.js, 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.