Raksha Israni
Software Engineer

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EXPERIENCE

Philips, Cambridge (MA) , USA — May 2023 – Dec 2023
Software Engineer Co-Op
- Developed a custom Microsoft Azure Dashboard widget using **HTML, CSS, JavaScript, React.js** and **Azure CI/CD** to display detailed pipeline test metrics, including success rates, pass/fail counts, and multi-build analysis.
- Built another Azure Dashboard widget to track the age of work items across stages, providing insights beyond standard cycle and lead times.
- Designed and developed a **Python** tool with **CI/CD pipelines** to detect test cases needing updates due to spec tag changes, with dynamic rules and integrated Teams notifications to relevant stakeholders, enabling smoother regression testing.

NoBroker.com, Bengaluru (KA), India — January 2022 - August 2022
Senior Software Engineer
- Devised fraud detection mechanisms in the **Docker**, **Kubernetes**-orchestrated **Java**, **Spring Boot**, and **MySQL**-based payment system, successfully identifying and blocking over 1,000 fraudulent transactions monthly, reducing financial losses by 20%.
- Implemented new system integrations with banking institutions and payment partners facilitating multiple payment options utilizing **Junit** & **Mockito** for **Automation Testing**, cloud deployment on **Google Cloud Platform** with **Kibana** and **ElasticSearch** monitoring and logging.
- Streamlined the payment refund process by fixing code bugs, improving payment state transitions hence reducing manual L3 support by 30-40 hours/week **improving refund speed** and **customer experience**.

Dell Technologies, Hyderabad (TS), India — June 2019 - January 2022
Senior Software Engineer
- Led the modernization of centralized communication systems, successfully transitioning over 70 countries from legacy monolithic solutions to a scalable, **microservice-based architecture** utilizing **Java, Spring Boot, MongoDB, Kafka and RabbitMQ**.
- Enabled the **CI/CD** for the customer communication engine with **cloud deployment** on Pivotal Cloud Foundry coupled with **unit testing** using **Junit, Mockito** and system vulnerability check using **SonarQube**.
- Designed and developed **data pipelines** for migrating terabytes of data from OracleDB to MongoDB using **Python, ELK stack, Kafka**.
- Implemented version control and collaboration on online platforms using **Git**, to ensure that changes were being tracked, and incorporated development under **Agile Methodology** with best practices of coding.
- Collaborated with teams to **evaluate requirements**, deliver innovative **back-end** solutions, develop reliable and secure **GraphQL** and **REST APIs** using **OAuth**, and ensure high-quality services by using tools such as **Postman** for thorough testing, debugging.

TEKsystems Global Services, Hyderabad (TS), India — July 2016 - May 2019
Software Engineer
- Engineered an intelligent solution using **Java, ElasticSearch** with **Splunk** logging framework to enable global order search throughout Dell ecosystem, serving more than **1 million clients per day**.
- Standardized integration of order search solution with **customer-facing products** to **minimize data inconsistency** and **integrity issues** by **30%**.
- Built middleware integrations using **Oracle Service Bus** to provide data view for customer notifications to sustain 60k-70k requests daily.

EDUCATION

Northeastern University, Boston (MA), USA — Dec 2024
Master of Science in Information Systems

Lakshmi Narain College of Technology, Bhopal (MP), India — June 2016
Bachelor of Engineering in Information Technology

TECHNICAL SKILLS

Languages:	Java, Python, C#, HTML, CSS, JavaScript
Frameworks:	SpringBoot, SpringMVC, .NET, REST, Junit, Mockito, Numpy, Pandas, Matplotlib, Scipy, Angular, React.js
Technologies:	RabbitMQ, Kafka, Pivotal Cloud Foundry, AWS, Microsoft Azure, Google Cloud Platform, Redis, Jenkins, Oracle Service Bus, Docker
Database:	Oracle SQL, MySQL, Microsoft SQL, MongoDB, ElasticSearch, Kibana, Cassandra, Azure Cosmos DB, ArangoDB
Tools:	GIT, IntelliJ, Eclipse, Jira, Agile, CI/CD, Spring Tool Suite, Bitbucket

PROJECTS

Dynamic Email Catalyst, Northeastern University — May 2024 – August 2024
- Spearheaded project implementation by utilizing **AWS (SES, S3, Lambda, Route 53, IAM)** for **automated**, **scalable** email campaigns through **serverless infrastructure** for bulk email delivery, reducing manual intervention by **30%**.
- Enhanced engagement by accomplishing time zone-aware, personalized, efficient email delivery by integrating **6 schedulers** in **AWS Event Bridge** based on customer preferences.

US Inbound and Outbound Travel Data Analysis, Northeastern University — January 2024 – April 2024
- Engineered a hybrid **Graph** and **Document Data Model** database on **Azure Cosmos DB** for U.S. travel data. Leveraged **Azure Data Factory** and **Databricks** for efficient data extraction and refreshes, with **PySpark** streamlining **data transformation** and modeling processes.
- Employed the **Gremlin API** for database interactions and utilized **PowerBI** for advanced **data visualization** and **forecasting**.

Spotify Song Recommendation Project, Northeastern University — Jan 2023 – April 2023
- Designed and implemented a song recommendation system using Spotify APIs to fetch data for 500+ user playlists and 10,000+ songs, leveraging **Python** for **data pre-processing** and feature extraction.
- Built and deployed a **K-Nearest Neighbors (KNN)** model to analyze user playlists and recommend songs with 70% accuracy, enhancing personalization and demonstrating scalable recommendation capabilities in a proof-of-concept project.

FitTrack Web Application, Northeastern University — June 2023 – August 2023
- Developed a comprehensive fitness tracking web application using **React.js, Next.js,** and **MongoDB**, enabling users to discover exercises, view demos, and monitor calorie intake to achieve their fitness goals.
- Implemented advanced **front-end development** techniques, including State Management, **UX Design**, **Progressive Web Apps (PWA)**, and Internationalization, to ensure a production-ready, user-friendly application.

Pet Care and Insurance System, Northeastern University — September 2022 – December 2022
- Designed pet care system built as a desktop application in **JAVA SWING**, by using **MVC concepts**, **SOLID principles** and **Design Patterns**.
- Created **8** different **role based interfaces** addressing owner, insurance, health care, and legal aspects.