Gurkirat Guliani

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PROFFESIONAL SUMMARY: Software Engineer with 3 years of Industry Experience, possessing strong problem-solving skills and adept at collaborating with teams to develop software solutions. Eager to apply my knowledge with demonstrated proficiency in Spring Boot, Azure, Apache Kafka and learn new technologies. Currently seeking opportunities to contribute to innovative projects.

EDUCATION

University of Washington	**Master of Science in Computer Science and Software Engineering**	Jun 2024(Exp.)
Birla Institute of Technology and Science	**Master of Science (Honors), Mathematics**	Sep 2020
Birla Institute of Technology and Science	**Bachelor of Engineering (Honors), Electronics and Instrumentation**	Sep 2020

TECHNICAL SKILLS AND CERTIFICATIONS

Languages & Databases:	Java, Python, JavaScript, HTML, CSS, Postgres, MySQL, Hibernate
Framework:	Spring Boot, REST APIs, Kafka, Spring Batch, Storm, FastAPI, React, React-Native, Firebase
Testing & Coverage:	Postman, JMeter, PACT, JUnit5, Cucumber, Integration, Mockito, JaCoCo, SonarQube
Tools & Certifications:	Azure DevOps, Jira, GitHub, Tableau, Teradata, IntelliJ, OCAJP Certified, Azure Fundamentals

PROFESSIONAL AND INTERNSHIP EXPERIENCE

Research Assistant, University of Washington, Bothell   Sep 2023 - Present
- Independently designed and proposed a protocol to migrate to Azure DevOps in phases to increase cross-functional collaboration, transparency and integration that improves the team's efficiency by roughly 50%.
- Developed a watermark logo that shows real-time date of creation using react-konva for the MeTILDA (Melodic Transcription in Language Documentation and Analysis) project helps save researcher 300 seconds per paper publication.
- Redesigned the landing page application and improved the navigation bar to increase user productivity by 10%.

Software Developer, EdgeVerve (Subsidiary of Infosys)   Nov 2020 - Sep 2022
- Engineered asset transfer components in a Spring Boot application with Postgres backend, employing SAGA design pattern.
- Constructed RESTful API adhering to Interface Separation Principle (ISP) promoting a modular app.
- Built a validation library which was used by 12+ microservices to perform field-level validation.
- Leveraged Spring Data JPA for efficient Object-Relational Mapping, thus simplifying database interactions.
- Achieved more than 80% test code coverage through integration and unit testing.
- Mentored 2 junior developers by explaining existing application architecture and performed code reviews.

Software Engineer Intern, PayPal   Jan 2020 - Jun 2020
- Developed COVID-19 impact analysis monitoring tool from scratch in Tableau, saving 5 hours weekly.
- Processed a 900K+ row dataset from multiple databases with complex queries.
- Devised a risk analysis monitoring tool based on the Pareto Principle to prioritize risk actions that mitigate the losses.

Software Developer Intern, IDfy   Jul 2019 - Dec 2019
- Incorporated the existing application with Twilio video support to enhance the user experience.
- Integrated Google Analytics into the application, enabling data-driven insights for product managers.

PROJECTS AND RESEARCH PAPER

Prediction of Patient survival using Classification ML model   Sep 2022 - Dec 2022
- Normalized the data by using outlier treatment reducing the final dataset to more than 90K rows and 90+features.
- Evaluated the model performances using the classification techniques: Logistic Regression, Naive Bayes, SVM, Decision Trees and achieved a model accuracy of more than 90%.
- Overcame rare classification problem by using resampling techniques like SMOTE, SMOTE Tomek, cluster centroid.

Time Sharing Based Multithreading approach to Quicksort, IEEE journal   May 2016 - Jan 2017
- Focused on the performance of multi-threaded quicksort with respect to sequential quicksort.
- Proposed solution showed a 40% reduction in execution time and 50% improvement in processor utility.

AWARDS AND COMMUNITY INVOLVEMENT

Awards	Husky 100, Outstanding Service Award for Organizing IEEE'2023 Conference, Outstanding Leadership Award.
Community Involvement	Computer Science Tutor, Student Ambassador, Certified Peer Health Educator, Co-Founder-BITS Goa Athletic Club, Team Lead-HelpAge India, Core Member-BITSAA