# Gurkirat Guliani

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## EDUCATION

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| University of Washington | **Master of Science in Computer Science and Software Engineering** | Jun 2024 |
| 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 |

## PROFESSIONAL AND INTERNSHIP EXPERIENCE

**Python and React Full Stack Developer,** University of Washington, Bothell                    Sep 2023 – June 2024
- Built a custom ReactJS component using react-konva for the Open-Source Software, MeTILDA that automatically injects creation date in the pitch art design, enhancing researchers' productivity in the publication process by 20%.
- Optimized CI/CD pipelines by removing dual build for the development branch, reducing deployment time from 7 to 5 minutes.
- Orchestrated the transition to Azure DevOps streamlining project management, integrating Azure Wiki for robust documentation and Azure Repo for code repository, establishing a highly efficient, one-stop platform boosting team productivity by 50%.

**Java Software Developer,** EdgeVerve                    Nov 2020 - Sep 2022
- Engineered end-to-end asset transfer components in a Spring Boot app with Postgres database, following MVC and SDLC methodologies; utilized SAGA design pattern, achieving a 25% reduction in processing time.
- Constructed RESTFUL Services adhering to Interface Separation Principle promoting the development of easily scalable application.
- Built a comprehensive validation library integrating custom and default validations; implemented across 12+ microservices to enhance field-level validations of incoming JSON, resulting in a 40% reduction in data entry errors.
- Leveraged Apache Kafka for event streaming between microservices, enhancing event streaming rate from 50k to 150k per second.
- Performed performance testing on exposed APIs using JMeter to ensure average response time to 0.7 seconds.

**Software Engineer Intern**, PayPal                    Jan 2020 - Jun 2020
- Designed COVID-19 impact analysis monitoring tool from scratch in Tableau that automatically updates, thus saving 5 hours weekly.
- Processed 900K+ row dataset from databases with complex SQL queries in Teradata which then acted as data-source for Tableau.

**Software Developer Intern**, IDfy                    Jul 2019 - Dec 2019
- Engineered a Ruby on Rails microservice that decrease data verification workload on the main platform by 30%.
- Integrated the existing application with Twilio Video Support to enhance user experience of performing KYC by 50%.

## PROJECTS

**Self-Heal Mobile Application** [link]                    Apr 2024 – Apr 2024
- Designed a multilanguage app to help people become emotionally intelligent; frontend in React-Native and backed in Spring-Boot; Won the category award in "Top 5 Most Voted Entry" out of 92 submissions.

**Activity Based Learning Application for Regional Languages** [link]                    Jul 2023– Jan 2024
- Developed a React-Native based app for Punjabi language practice; utilized Spring Boot and GCP's Cloud Vision and Speech-To-Text APIs, delivering immediate feedback on character accuracy and boosting user satisfaction by 45%.

**Distributed Computing**                    Mar 2023– June 2023
- Built a multi-threaded Tic-Tac-Toe game in Java with support for multiplayer using TCP socket, implementing thread synchronization.
- Created real-time data analysis system using Apache Storm to analyze flight data of 40 airports.

**Prediction of Patient survival using Classification Machine Learning models** [link]                    Sep 2022 – Dec 2022
- Analyzed patient survival data which consisted of more than 90k rows and 90+ features by evaluating classification techniques like Logistic Regression, Naive Bayes, and Decision Trees, achieving model accuracy of more than 90%.

## TECHNICAL SKILLS AND CERTIFICATIONS

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| **Languages & Databases:** | Java, Python, JavaScript, Ruby, HTML, CSS, PostgreSQL, MySQL, Hibernate, Redis. |
| **Framework:** | Spring Boot, Apache Kafka, Spring Batch, Storm, React, React-Native, RabbitMQ, Firebase. |
| **Testing & Coverage:** | Postman, JMeter, PACT, JUnit5, Cucumber, Integration, Performance Testing, Mockito. |
| **Tools & Certifications:** | Docker, Kubernetes, Google Cloud Platform, Azure DevOps, Jira, Git Version Control, GitHub, Tableau, Teradata, IntelliJ, Oracle Certified Associate Java Programmer, Azure Fundamentals. |
| **Core Knowledge:** | Analysis and Design of Algorithms, Distributed Computing, Software Architecture, System Design, Research Methods in Software Engineering, Software Management, Object Oriented Programming. |

## AWARDS AND ACHIEVEMENTS

- **HUSKY 100 –** Awarded to 100 students out of 70K who have displayed commitment in making a difference on campus. [link]
- **Outstanding Leadership Award** – Awarded by BITSAA for leading job support initiative that supported more than 80+ job seekers.