

Leo Raphael Rodrigues

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Education

Undergraduate - National Institute of Technology, Rourkela (NIT-R) B.Tech. in Computer Science and Engineering GPA: 7.93/10 Relevant Courses: Machine Learning, Transformer Architecture, Neural Networks, Natural Language Processing, Data Warehousing and Mining, Artificial Intelligence, Algorithms and Data Structures	Graduation Date: May 2023
Intermediate - Abu Dhabi Indian School, Abu Dhabi, United Arab Emirates Senior Secondary Education, CBSE Percentage: 93.6%	Graduation Date: May 2019
Matriculation - Abu Dhabi Indian School, Abu Dhabi, United Arab Emirates Higher Education, CBSE CGPA: 9.6/10	Graduation Date: May 2017

Work And Research Experience

Software Engineer GEP Developing Software Solutions, GEP	Jun. 2023 - Jul. 2025 .NET Core, C, Angular, MongoDB, Python
• Developing robust software solutions at GEP, leveraging .NET Core for back-end services and Angular for dynamic, user-friendly front-end applications.	
• Focused on creating scalable, efficient, and innovative systems to address complex business challenges. I also worked on scalable and efficient integration of AI solutions like recommender systems into the software.	
• Delivered AI-integrated supply chain and procurement solutions to more than 50 clients across the world aiding them in saving millions of dollars during procurement.	
Undergraduate Researcher WMT 2023	Jul. 2023 - Aug. 2023 Python, Fairseq, Bash, Linux
• Actively participated in the WMT (Workshop on Machine Translation) 2023 competition, showcasing expertise in machine translation algorithms, and contributing to the advancement of language technology on a global stage.	
• Involved working on the translation for four Indic languages with small datasets (low resource languages).	
• Got respectable scores in all languages in the competition.	
Undergraduate Researcher Dataset Filtration to Improve Model (NMT) Performance	Dec. 2022 - April. 2023 Python, Fairseq, Bash, Linux
• Worked on developing and evaluating dataset filtration techniques to enhance Neural Machine Translation (NMT) quality by selectively curating training data for improved model performance.	
• Evaluated three different methods, including a novel method with promising results.	
• Link to work	
Undergraduate Researcher Neural Machine Translation and Backtranslation in Indic Languages	Aug. 2022 - Dec. 2022 Python, Fairseq, Bash, Linux
• Worked on investigating the efficacy of back-translation as a strategy in improving Neural Machine Translation (NMT) for Indic languages.	
• Tested the implementation with 15 Indic languages to find out which languages perform better and why.	
• Paid special attention to languages with smaller datasets.	
• Achieved 100% increase in translation quality in more than five languages using the above method.	

Projects and Other Experience

SWE Intern (GEP)	May. 2022 - Jul. 2022
Intern of Technology at GEP	<i>Angular, Plugin Architecture, MongoDB, Javascript, Typescript, HTML, CSS, Git, Github</i>
<ul style="list-style-type: none">Summer internship at GEP where I worked on developing a new page for a client-specific request on GEP's website NEXXE.Worked with primarily front-end technologies	
Winner of GEP Techathon	Aug. 2022

Leadership and Extracurricular Activities

GEP Extracurriculars	2021 - 2022
FUN Team, GEP Smash	
<ul style="list-style-type: none">Part of the GEP Fun Team, organizing events in the office space.Semi-finalist in the company-wide table tennis tournament.	
Degree361	2021 - 2022
Editor-in-Chief	
<ul style="list-style-type: none">Led a team of writers, designers, and artists to curate an edition of the college magazine and promote writing in the collegeOrchestrating writing workshops, and giving students a platform to express their creativity in literary or artistic work.	
TEDxNITRourkela	2020 - 2021
Associate Chief Curator	
<ul style="list-style-type: none">Led a team to organize the TEDxNITRourkela EventInvolved in inviting speakers, curating their speeches, and timelining of event from start to finish.	

College Basketball	2019 - 2020
Team Member	
<ul style="list-style-type: none">Played college-level basketball at national-level tournaments like the Inter-NIT Basketball Tournament hosted in NIT-Surathkal 2020.	

Skills

Languages:
English, Hindi, Konkani (Native), Arabic, French

Technologies & Tools:	
.NET Core, .NET Applications, Angular, Git, Linux, C#, Javascript, Python, C++, mySQL, HTML, CSS, Bash, Type-script, mongoDB querying	