

DIVYATEJA PASUPULETI

EDUCATION

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Birla Institute of Technology and Science, Pilani
Bachelor of Engineering in Computer Science (2021-2025)

9.75/10 CGPA
India

EXPERIENCE

Member of Technical Staff DevRev	06/2025 – PRESENT
• Engineered NL-to-SQL translation layer for Computer agent, enabling natural language queries to be converted to structured database queries with support for complex filtering and aggregations.	
Member of Technical Staff Intern DevRev	05/2024 – 06/2025
• Optimized a retrieval augmented generation pipeline to handle tabular data in unstructured file formats, boosting the answering rate from 70% to 80% and improving correctness from 37% to 48%.	<i>Python, Docker, Kubernetes, Golang</i>
• Leveraged text parsers, vision transformers, and LLM models to ensure accurate extraction of textual information from diverse sources such as pdfs, images and html files.	
• Released an internal LLM tool for access to AWS bedrock models for access within the organization in order to optimize costs.	
• Architected knowledge integration system for in house agents supporting enabling semantic search across hybrid search objects.	
Summer Intern <i>Indian Institute of Remote Sensing, ISRO</i>	05/2023 – 07/2023
• Analyzed spatial-temporal flood patterns in the Assam Valley from 2015 to 2020; managed data acquisition, pre-processing, and applied thresholding and image segmentation algorithms to identify and delineate flooded regions.	<i>Python, Google Earth Engine</i>
Web Developer <i>Acoustic Sensing and Imaging Laboratory, Arctic University of Norway</i>	08/2022 – 09/2022
• Curated and organized a database of 50 research papers and publications from Google Scholar using web scraping techniques, streamlining access to the lab's research for ongoing projects.	<i>Next.js, Python</i>
Full Stack Developer <i>Teenage Concerns</i>	12/2021 – 06/2022
• Developed a full-stack application that enabled anonymous user registration and mentor assignment, facilitating over 200 users to discuss personal and mental health topics, supported by a ML-based tailored matching system.	<i>React.js, Graph QL, WebSockets</i>

TECHNICAL SKILLS

AWS, Apache Kafka, Docker, C, C++, Confluent, Golang, Graph QL, Java, Javascript, Kubernetes, Message Queues, Next.js, Node.js, Python, Pytorch, React, React Native, Rust, Tensorflow, Typescript, WordPress, Postgres, Sqlite, MySQL, MongoDB, Redis, Spring Boot, Nginx

PROJECTS

Collaborative Pickup App <i>MongoDB, Express.js, Next.js, Node.js</i>	Website Github
• Facilitated a peer-to-peer request and delivery system to streamline item procurement from various places on campus, addressing coordination challenges and achieving a 50% reduction in wasted time for students in the campus for getting things done.	
Browser Aware Secure Quiz App <i>Next.js, React Native, PostgreSQL</i>	Website
• A secure quiz app system capable of detecting malpractices and auto-submitting responses by monitoring tab and window changes to uphold assessment integrity by leveraging browser DOM controls and used for daily exit tests by over 500 students.	
Cross campus resource sharing system <i>Next.js, Python, PostgreSQL</i>	Website Github
• A cross campus resource system with over a 300 stars on github for sharing internship, placement opportunities, offering access to 3200+ course details, 600+ course reviews, 100+ course resources, and 100+ grading charts catering to about 10000 students across campuses.	
Shopping Order management and tracking app <i>React.js, Spring Boot, Java</i>	Github
• Engineered a scalable, containerized web application for order management, real-time tracking, and inventory control; enforced role-based access with Spring Security and MySQL, boosting security by 40%.	

POSITIONS OF RESPONSIBILITY

Technical Team Lead <i>Student Welfare Division</i>	06/2023 – 07/2024
• Developed a real-time room allotment web portal, automating 90% of the manual process and ensuring equitable room allotment.	<i>BITS Pilani</i>
• Launched a food ordering application for 4000+ campus students, enabling remote food orders from canteens and driving 125,000 orders within the first semester of release.	
• Introduced a QR code SaaS system for seamless entry and exit for the college events, resulting in a 50% reduction in waiting time.	
Joint Secretary <i>Automation and Robotics Club</i>	07/2022 – 05/2023
	<i>BITS Pilani</i>

PATENTS AND PUBLICATIONS

Remotely Operated Autonomous Life-Saving Buoy System with Image Recognition Technology Patent No. 559374	
• The disclosure proposes an autonomous life-saving buoy system that tracks the victim's location and shares the images and location with rescue personnel or devices via a mobile application, facilitating timely rescue operations during natural calamities.	
Malware Analysis Using Transformer Based Models: An Empirical Study 21st International Conference on Security and Cryptography	