

DIVYATEJA PASUPULETI

EDUCATION

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BITS Pilani, Hyderabad Campus

Bachelor of Engineering in Computer Science

9.71/10 CGPA

Hyderabad, Telangana, India

EXPERIENCE

Member of Technical Staff Intern

05/2024 – PRESENT

Devrev

Python, Docker, Kubernetes, Golang, Rego

- 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%.
- 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.

Summer Intern

05/2023 – 07/2023

Indian Institute of Remote Sensing, ISRO

Python, Google Earth Engine

- 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.

Web Developer

08/2022 – 09/2022

Acoustic Sensing and Imaging Laboratory, Arctic University of Norway

Next.js, Python

- 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.

Full Stack Developer

12/2021 – 06/2022

Teenage Concerns

React.js, GraphQL, WebSockets

- 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.

TECHNICAL SKILLS

Amazon Web Services, Apache Kafka, Docker, C, C++, Golang, GraphQL, Java, Javascript, Kubernetes, Message Queues, Next.js, Node.js, Python, Pytorch, React, React Native, Rego, Rust, Tensorflow, Typescript, WordPress, Postgres, SQLite, MySQL, MongoDB, Redis Database, Integration Testing Frameworks, Spring Boot, Nginx

PROJECTS

Pascal Compiler | *yacc, lex, C, bison, flex*

- Developed a Pascal compiler that implemented essential language features, printed parse trees, performed syntactical and semantic analysis, and converted code into three-address code.

Gedditdone. Collaborative Pickup App | *MongoDB, Express.js, Next.js, Node.js*

- 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.

Secure Quiz App | *Next.js, React Native*

- 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.

Handouts For You | *Next.js, Python*

- A cross-campus tracking system for sharing internship and placement opportunities and CTCs and offering access to 3200+ course details, 600+ course reviews, 100+ course resources, and 100+ grading charts catering to about 10000 students across campuses.

Oopsie | *React.js, Spring Boot, Java*

- 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

06/2023 – 07/2024

Student Welfare Division

BITS Pilani, Hyderabad Campus

- Developed a real-time room allotment web portal, automating 90% of the manual process and ensuring equitable room allotment.
- 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.

Joint Secretary

07/2022 – 05/2023

Automation and Robotics Club

BITS Pilani, Hyderabad Campus

PATENTS AND PUBLICATIONS

Malware Analysis Using Transformer Based Models: An Empirical Study | 21st International Conference on Security and Cryptography

- Used Language models to categorize whether an app is malicious or not leveraging graph neural networks and sequence based transformer models.

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.