

Shreya Rajpal

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EDUCATION

Vellore Institute of Technology Vellore, Tamil Nadu

2021-2025

Bachelor of Technology in Computer Science Engineering, GPA 8.76/10.0

- **Top 10%** of the class in a cohort of 70 students.
- **Board Member- Technical Head, IEEE Society on Social Implications of Technology (SSIT) VIT**: Spearheaded initiatives integrating technology with social impact, enhancing the chapter's engagement and visibility and **mentoring 40+ students**.
- **Project Admin, GSSOC'23**: Administrated 2 significant projects, demonstrating versatile leadership in **open-source community** development, handling **over 900 issues and 800 pull requests in 2 repositories**.
- **Achievement: 1st Prize at Eco Hack IEEE-SSIT, VIT** (2021) among 50+ teams from VIT, University.
- **2nd Prize at CIL Hackathon** (2021) among 200 teams all over India.
- **Top 50 Teams in Mercer Mettl Hackathon 2024** among 500+ participants all over India.

EXPERIENCE

Georgia Tech(Financial Services Innovation Lab) – Atlanta, USA (Remote)

Research Assistant

May 2024 – Present

- Selected as a Volunteer Research Assistant at Georgia Tech among a competitive pool of applicants through a multiple round system to work and explore the use of **LLMs and Generative AI in Finance**.

University of Hamburg (Semantic Systems Research Group) - Hamburg, Germany

Research Intern

Aug 2023 - Sep 2023

- Engineered a Pangu-inspired system for enhancing Knowledge Graph QA and information retrieval employing BERT CLS embeddings and **attained 100% accuracy on 200 DBLP QuAD questions**, achieving an **F1 score of 0.2175 on a 500-question Scholarly QALD test dataset**, publishing "[BERTologyNavigator: Advanced Question Answering with BERT-based Semantics](#)" in the Joint Proceedings of QALD 2023 and SemREC 2023 (ISWC 2023).

Resshu Connect Pvt Ltd. (Apna Konnect) – A social media application with an ethnic touch

App Developer Intern

Jan 2023 - Mar 2023

- Achieved **100+ downloads** and a **5-star rating on Google Play Store** through user-centric features and bug resolutions in a social networking app developed in a team of 7; improved the app performance **by 45%**.
- Spearheaded the addition of **profile functionality, deep linking via Firebase, and push notifications**, enhancing user engagement and app functionality by **25%** in a dynamic team of lead software engineer and designers.

PROJECT AND RESEARCH

EcommHub - E-Commerce Web Application

- Developed a robust e-commerce platform using the **MERN stack**, featuring **product reviews, user profiles, and admin panels** streamlining payment processes with the PayPal API for a seamless checkout experience.

FinRAG - Financial Analysis Bot

- Developed a bot to **understand and provide answers** based on **SEC filings over 20 years** for any company using natural language processing & retrieval-augmented generation (RAG) techniques and **GPT-3.5 LLM** Api

Codegen - Code Generation Assistant

- Developed a code generation assistant using **LLMs: Polycoder for context-aware code completions, GPT-3.5 and GPT-Neo for conversational code interaction**, and **Falcon 7b for generating reusable code templates**.

Automatic Number Plate Recognition (ANPR) System

- Conducted research on **ANPR systems, focusing on GPU performance enhancements and high-resolution camera accuracy** in character recognition showing an **80% enhancement** in the performance.

Code Canvas (GSSOC'23)

- **Project Admin** of the GitHub repository "Code Canvas" at GSSOC 2023. Developed a **hub of 20+ Open-Source Projects** for beginners, handling over **250 issues and 150 pull requests** collaborating with **100+ coders**.

Games and Go (Hacktober Fest 2022, GSSOC'23)

- **Project Admin** of "Games and Go" at GSSOC'23 and **Maintainer** at Hacktober Fest 2022. Designed and developed UI/UX for a gaming website using ReactJS, handling over **560 issues and 590 pull requests**.

TECHNICAL SKILLS

- **Programming Languages & Technologies**: Python, C++, C, Java, web designing using HTML, CSS, and JavaScript. MySQL and MongoDB for database management, Figma, and Canva for design, Microsoft Office suite for productivity.
- **Development Tools & Frameworks**: Redux, React.js, Node.js, Express.js, MongoDB (MERN Stack), Firebase, Git, GitHub, React Native, AWS Machine Learning (Deep Racer), Flask, Scalability, Unix/Linux, TCP/IP, distributed system design.
- **Data Science & Artificial Intelligence-Machine Learning**: Python libraries for data visualization and analysis, including Numpy, Pandas, Scikit-learn, Matplotlib, PyTorch, SPARQL for querying RDF databases, Hugging Face Library, OpenCV

Certifications

- AWS-Udacity Nanodegree for AI programming in Python [Machine Learning Fundamentals]
- Advance Frontend Web Development Course by Coding Ninjas [React.js, React-Redux, Chat Integration]
- MERN from Scratch 2023 Udemy Course by B. Traversy [full stack, Payment Api, Data compression Software Solutions]
- Google Cloud Skill Boost (Cloud Digital Leader Badges-6 modules completed) for learning Cloud Storage Solutions.