Partha Sarathi Purkayastha

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EDUCATION

Birla Institute of Technology and Science (BITS) Pilani, Rajasthan, India

Bachelors of Engineering in Computer Science

Aug 2020 - Present GPA: 9.80/10.0

Relevant Courses: Data Structures and Algorithms, Database Systems, Object Oriented Programming, Operating Systems, Computer Networks, Theory of Computation, Computer Organization, Computer Graphics, Human Computer Interaction

TECHNICAL SKILLS

Programming languages: Python, JavaScript, TypeScript, Java, C/C++, GoLang, MySQL **Libraries/Frameworks:** Node.js, React.js, Next.js, Redux, Tailwind CSS, Memlab, MongoDB

EXPERIENCE

Software Engineering Intern - Sprinklr, Gurgaon

Jan 2024 - Present

- Identified and resolved memory leaks across codebase using memlab, reducing overall memory consumption by 10+%
- $\bullet \ \text{Implemented SSR for components with } \mathbf{end\text{-}to\text{-}end} \ \mathbf{testing}, \ \mathbf{enabling} \ \mathbf{dynamic} \ \mathbf{rendering} \ \mathbf{and} \ \mathbf{20} + \% \ \mathbf{faster} \ \mathbf{load} \ \mathbf{times}$
- Technologies used: Next.js, GraphQL, Memlab

Software Engineering Intern - Uber, Hyderabad

May 2023 - Jul 2023

- Developed an end-to-end application for handling Credit Types in the company's portal used by 2000+ employees
- Automated integration process with end-to-end testing, enhancing reliability, and reducing onboarding time by 2 months
- Technologies used: React.js, GraphQL, GoLang, MySQL

Software Engineering Intern - Mercedes-Benz, Bangalore

Jan 2023 - May 2023

- Enhanced vehicle component design by training VAE Models on 25,000+ data points provided in a proprietary dataset
- Optimized product development by designing an AI-driven website to generate custom designs for company research
- Technologies used: Docker, Flask, React.js, MongoDB

Summer Intern - Jio Platforms Ltd, Mumbai

May 2022 - Jul 2022

- Improved object detection in AR/VR design at Jio by devising a pipeline automating bounding box dataset creation
- Achieved 90+% confidence training YOLOv7 on a proprietary dataset, distinguishing objects and barriers from humans
- Technologies used: PyTorch, Selenium, Roboflow

Relevant Projects

Rogue Ops - Game Development

Jan 2023 - May 2023

Supervised by Dr. Sundaresan Raman, BITS Pilani

- Developed a third-person shooter game in C# with missions, day-night cycles, and inventory for immersive gameplay
- Utilized Blender for crafting high-quality game assets and integrated them with Unity for fluid animations
- Employed CineMachines to provide enhanced, cinematic camera perspectives within the game environment

Fake News Detection - Machine Learning

Oct 2021 - Dec 2021

Supervised by Dr. Virendra Singh Nirban, BITS Pilani

- Trained Bi-LSTM, LSTM and Ensemble Learning Models for text-based fake news classification
- Performed a comparative study and achieved 90+% on all evaluation metrics with Bi-LSTM
- Presented the findings in the WICT 2022 Conference and the results were published in Springer's LNNS

DNS Visualizer - Web Development

Sept 2021 - Oct 2021

Supervised by Dr. Amit Dua, BITS Pilani

- Developed a full-stack website to visualize the DNS Security Extensions (DNSSEC) authentication chains
- Utilized Node.js for server-side and React.js for client-side, ensuring seamless platform functionality and interface
- Integrated a relational MySQL database for efficient data retrieval enabling dynamic content rendering on the website

Positions of Responsibility

Teaching Assistant - GS F331, Techniques in Social Research

Jan 2023 - Present

Organized evaluations for a class of 50 students on Techniques in Social Research, and conducted weekly field classes

Teaching Assistant - CS F241, Microprocessors and Interfacing

Jan 2023 - May 2023

Taught MASM based assembly programming to a class of 50 students and facilitated weekly lab sessions

Publicity Coordinator - Arunodoi, BITS Pilani

Jan 2022 - May 2022

Led the photo-editing and video-editing teams of Arunodoi to improve cultural integration and community engagement

Volunteer - Indian Red Cross Society

Nov 2021 - Jan 2022

Volunteered for the execution of a two-day long Blood Donation Camp with a footfall of 3000+ and 800+ Blood Donations

SCHOLASTIC ACHIEVEMENTS

Institute 100% Merit Scholarship - Awarded to the top 1% of the batch for academic excellence