Chinmay Rajpurohit

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GitHub
Portfolio

Education

- **Indian Institute Of Technology, Delhi** — New Delhi, India
  Master of Technology - Computer Technology; GPA: 7.54 (Till 2nd Sem) — *July 2024 - Present*
  Relevant Courses: *Mathematics for Machine Learning, Software Fundamentals, Wireless Networks, Network Security*
- **Government Engineering College, Ajmer** — Ajmer, India
  Bachelor of Technology - Computer Science; GPA: 7.82 — *May 2018 - May 2022*
  Relevant Courses: *C++, Data Strutures, Operating System, Computer Networks, Computer Architecture, Cloud Computing*

Skills

- **Languages**: C/C++, HTML, CSS, Python, Javascript(React.js)
- **Frameworks**: Bootstrap
- **Platforms/Tools**: Linux, Web, Windows, GitHub, Docker, Kubernetes
- **Soft Skills**: Leadership, Event Management, Public Speaking, Time Management
- **Achievements**: Secured All India Rank 593 in GATE Computer Science 2024 (99.52 % ile)

Experience

- **Wipro Limited** — Remote
  Project Engineer Trainee — *May 2022 - Nov 2022*
  - **Responsibilities**:
    - Worked on bug fixing, performance tuning, and module-level enhancements for enterprise applications in an agile development environment.
    - Conducted thorough product testing prior to delivery to ensure quality and reliability.
  - **Skills**: HTML, CSS, Bootstrap
- **Ditansource** — Remote
  Front-End Developer Intern — *Jun 2021 - Sep 2021*
  - **Responsibilities**:
    - Designed and developed key pages including the homepage, product listings, and user dashboards, emphasizing clean layouts and usability across devices.
    - Collaborated with backend developers to integrate frontend components with APIs, ensuring smooth data loading and interactions.
  - **Skills**: JavaScript (React.js), HTML, CSS, Bootstrap

Projects

- **Examining Social Media's Role in Disaster Management**: (Oct 2024)
  • Collected and preprocessed social media data to analyze real-time disaster response trends.
  • Applied Sentiment Analysis to assess public emotions and reactions.
  • Implemented topic modelling to identify key themes in disaster-related discussions.
  • Used Graph Neural Networks (GNNs) for classification, leveraging GraphSAGE, GAT, and GCN models.
- **Matrix Inversion in RISC-V Assembly**: (Aug 2024)
  • Implemented the Gaussian Elimination Algorithm to compute the inverse of an $n \times n$ matrix using RISC-V Assembly.
  • Optimized register usage and memory access for efficient computation.
- **Linux Kernel Module for Process Resource Monitoring**: (Jan 2025 – Mar 2025)
  • Resource Tracker: Monitors heap memory usage and number of open files for registered processes and their threads by extending `task_struct`.
  • Resource Limiter: Enforces user-defined limits on heap size and open files. Exceeding processes are automatically terminated with `SIGKILL`.
  • Worked with Linux Kernel internals.
  • Languages Used: C, Bash.