Rishi Chordia

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Education

Indian Institute Of Technology Roorkee   Aug 2018-Jun 2022
Bachelor of Technology in Computer Science (CGPA: 9.243 / 10)   *Roorkee*
- **Coursework:** Data Structures, Computer Networks, DBMS, Operating Systems, System Software, Computer Architecture, Advanced Algorithms, Cloud Computing, Information & Network Security, Theory of Computation

Experience

Microsoft | Software Engineer , *Bangalore*   Aug 2022 – Present
- As a part of MGDC, Optimized the core extraction platform, using multi-threading concepts in C#, to reduce the time of data extraction for huge tenants,from several days to just a few minutes.
- Worked on automation tools for dataset on-boarding using LLM's to generate the necessary files. Created chat-bots to help ease the process of onboarding api's as a support assistant.
- As a part of WPA team , worked on projects like optimization of latency of data flow; creation and, management of data flow pipelines using ADF ; privacy scrubbing using Apache Spark and Hadoop clusters.

Rephrase.ai | Software Engineer Intern , *Bangalore*   May 2022–Aug 2022
- Profiled and Optimized system latency in streaming huge files by a factor of 100x from a few seconds to a couple of milliseconds

Microsoft | Software Engineer Intern , *Azure Cloud, Bangalore*   May 2021 – Aug 2021
- Designed and Implemented gRPC communication between microservices to optimize the latency by 10x from the existing systems.

Projects

No-SQL based Distributed Database System | *BTech Project, IIT Roorkee*   Fall 2021–Spring 2022
- Built a No-SQL-based key-value distributed database Go. IMplemented RAFT consensus algorithm and bench marked the database on 1000 writes/second.

Security attacks and Reverse-engineering of modern Hardware components | *ACM, IIT Roorkee*   Spring 2021
- Reverse engineered CPU cache size and associativity, demonstrated covert channel attack using LLC cache and flush-restore model. Also demonstrated spectre attack using a cache side channel and speculative execution. Link to Project

KSOS | *ACM Student Chapter, IIT Roorkee*   Fall 2021–Spring 2022
- Built an linux kernel from scratch for x86, with a custom boot loader. Implemented a FAT12 file system to store and load the kernel. Built interrupt handlers and virtual memory management systems in the kernel and wrote a simple shell program. Link To Project

POS Tagger | *CSN-371 Artificial Intelligence, IIT Roorkee*   Fall 2020
- Created a Part-of-Speech tag predictor for english language using the Hidden Markov Model and the viterbi algorithm. Link To Project

Technical Skills

Languages: C# , C/C++, Python, Apache Spark, Bash, SQL, Latex, HTML/CSS
Technologies: Django, Flask, Ruby on Rails, Vim, Docker, Git, GNU/Linux, CMake, Azure

Positions Of Responsibilities — Teaching Assistantships

Learning Seminars | SIDE team   Microsoft IDC, Bangalore
- Orchestrated the learning seminars in E+D org of Microsoft on topics related to Distributed Computing like Distributed Consensus Protocols(RAFT & Paxos), for the knowledge and growth of colleagues.

ACM Student Chapter | Head Os & Computer Architecature   IIT Roorkee
- Organised biweekly lectures on OS and comp. architecture. Organised open-workshops that taught students to build small programs like a custom Linux-shell(using multiprocessing), multi-threaded client-server chat applications etc,