in ruchi-saha
 ruchi09

+91-9790707263
✉ ruchi.saha@outlook.com

Ruchi Saha

EDUCATION

Dual Degree (Btech + Mtech) Computer Engineering, CGPA: 8.89/10 **(2015 - 2020)**
Indian Institute of Information Technology, Design and Manufacturing, Kancheepuram

Class XII, Percentage: 91.8% , Kendriya Vidyalaya AFS Uttarlai **(2013 - 2014)**

Class X, CGPA: 10/10, Kendriya Vidyalaya AFS Uttarlai **(2011 - 2012)**

WORK EXPERIENCE

Engineer, Backend Server **(Jan 2021 - Present)**
Samsung R&D Institute India-Delhi 📍 Noida
- **Tech Stack:** Microservices, Scala, Redis, Postgres, AWS, Kubernetes, Cloud System Design
- *Server Design and Development:* Designed and deployed microservice based software architectures in Cloud Environment
- *System Designing:* Designed stable and flexible systems which performs well even under high loads of traffic.
- *Database Inter-working Development:* Developed interworking modules linking business logic with database.
- Developed new features and services for Samsung TVs.
- Redesigned existing systems to enhance performance.

Network Analyst (Intern) **(May 2018 - July 2018)**
GAVS Technology 📍 Chennai
- **Tech Stack:** Lua, C++, Kafka, Solr
- Worked in the field of automation and networking. Worked with Information Management Systems.
- Studied and customised open source network monitoring softwares.

SKILLS

Programming Languages	Scala, Python, Java, C++
Cloud Technologies	Microservices, System Design, Kubernetes, AWS,
Databases	Redis, Postgres
Tools	Kibana, Grafana, Sensu, Intellij, PyCharm, Visual Studio, LaTeX

SELECTED PROJECTS

Resource-Efficient and High-Throughput FPGA-based Multi-match Packet Classification Architecture for NIDS (Final Year Project) IIITDM Kancheepuram (Nov'19 - July20)
Work submitted to the journal of Computer Systems Science and Engineering (awaiting review) (A short summary of work here).
Supervised by Dr Noor Mahammad SK, supported by Ministry of Electronics and Information Technology, Govt. of India

Privacy Preserving Public Auditing with Data Deduplication for Secure Data Storage in Fog to Cloud based IoT (Cryptography Research Intern) IDRBT, Hyderabad (May - Sep19)
Researched on Data Integrity and Deduplication in fog to cloud based IoTs (link), Supervised by Dr P Syam Kumar

Network Management System IIITDM Kancheepuram (Aug - Nov'19)
Designed a Software to help monitor health of the network for college Network Infra Department.

Waste Management System IIITDM Kancheepuram (July'16 - Nov'17)
Worked towards minimising litter around Dustbins. Spent hours sitting close to trash cans observing and analysing how people behaved around them.

AWARDS, HONORS & VOLUNTEER EXPERIENCES

Ford CSAM IoT Security Paper Presentation (link), Won Best Paper Award	(2019)
GATE (Graduate Aptitude Test in Engineering), All India Rank 1855	(2019)
Technical Affairs Coordinator, IIITDM Kancheepuram	(2016 - 2017)
Volunteer (organizing team)-World Space Week, ISRO-SHAR	(4 - 10 Oct 2016)
School Captain, Kendriya Vidyalaya AFS Uttarlai	(2013 - 2014)
School Vice Captain, Kendriya Vidyalaya AFS Uttarlai	(2012 - 2013)

HOBBIES AND LANGUAGES

Hobbies Painting, Reading Comics
Languages Hindi (*native*), English