SAGAR KUMAR

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EDUCATION

- **Indian Institute of Technology Guwahati** — Assam, India
  Master of Technology in Data Science; GPA: (8.32/10.0) — *Jul. 2019 – Jun. 2021*

- **Heritage Institute of Technology** — Kolkata, India
  Bachelor of Engineering in Electronics and Communication; GPA: (7.85/10.0) — *Aug. 2014 – Jul. 2018*

EXPERIENCE

- **HCL Software** — Bengaluru, India
  Senior Software Engineer — *Jul 2021 - Present*

  ○ Rational Business Developer(RBD) is an Eclipse-based integrated development environment (IDE) that simplifies the development of Web 2.0, mobile, service-oriented architecture(SOA), and traditional applications using the Enterprise Generation Language(EGL).

  ○ Compiles into Java, COBOL, JavaScript, allowing it to be deployed to a wide variety of environments (enterprise system,application servers, web browsers)

  ○ Ideal for business-oriented development teams that value ease of learning and need to quickly deliver modern applications and services.

  ○ Containerized EGLSDK componenet in headless mode for generation, deployment, compilation of EGL programs.

  ○ Setup jenkins which spin a new container of docker image for every build and generate project.

PROJECTS

- **CPU Scheduling Algorithm** — Jul 2022
  link

  ○ Implementation of CPU scheduling algorithms from scratch:

  ○ First Come First Serve (FCFS), Shortest Job First (SJF), Shortest Remaining Time (SRT), Priority Non-preemptive (PSN), Priority Preemptive (PSP), and Round Robin (RR).

  ○ Containerized these algorithms using docker

  ○ **Technology Used:** Java, Docker

- **Generating Scorecard from commentary of world cup match 2019** — Aug 2019
  Prof. Vijaya Saradhi CSE Dept, IIT Guwahati — *link*

  ○ The aim of this course project is to compute scorecard from the text commentary.

  ○ Output scorecard should be identical in format as given at the scorecard link

  ○ Compare the output scorecard obtained by program with the published work

  ○ **Technology Used:** Python

KEY COURSE TAKEN

○ Data Structure and Algorithm
○ Operating System
○ Object Oriented Programming
○ DBMS
○ Networking Basics
○ SQL

Technical Skills

- **Languages** : Core Java, Python, SQL
- **Operating System** : Windows, Linux
- **Tools** : Docker, Microservices, Container, Jenkins, GIT
- **IDE** Eclipse, RBD, IntelliJ IDEA, Visual Studio Code
- **Others** OOPs, Multithreading, JDBC, Bash
- **Miscellaneous** Vim, LaTex, Jupyter Notebook, Putty

Achievements and Fellowships

- Secured 98.96 percentile in GATE-19 (Electronics and Communication Engineering) among 104782 candidates
- Ministry of Human Resources and Development fellowship (Government of India) (2019-2021) for M.Tech at IIT Guwahati