

# SAI KUMAR DOMAKONDA

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## EDUCATION

**Indian Institute of Technology (IIT) BHU, Varanasi**  
*Bachelor of Technology - Mechanical Engineering*

**Jul 2018 – May 2022**  
*CGPA - 8.13/10*

## WORK EXPERIENCE

**Defmacro Software Pvt. Ltd. (ClearTax)**  
*Software Engineer I (Backend)*

**Jul 2022 – Present**  
*Bengaluru, India*

- Developed the **GSTR1 vs Sales Register Reconciliation** tool, playing a vital role in architecting the solution, **API design**, and schema establishment from inception.
- Enhanced operational efficiency by deploying an **advanced algorithm**, positively impacting over **2,000 workspaces** and significantly reducing reconciliation runtime.
- Implemented a **Python-based migration strategy** coupled with **Airflow orchestration**, ensuring a seamless transition of customers to an upgraded system. This technical overhaul significantly enhanced payment preference values post-reconciliation, resulting in remarkable **customer retention rates**.

**Priority Pulse Pvt. Ltd.**  
*Summer Intern - Frontend Web Developer*

**May 2021 – Jul 2021**  
*Varanasi, India*

- Enhanced web functionality using HTML, CSS, JavaScript, and **ReactJS** for dynamic UI/UX.
- Collaborated with designers to create modular, responsive templates with CSS and JavaScript libraries.

## PROJECTS

### Video Chat Application

- Engineered a scaled-down iteration resembling Google Meet/Skype, enabling multiple participants to convene, incorporating features such as video streaming, audio communication, and chat functionality.
- Implemented WebRTC technology to facilitate seamless communication. **WebRTC's** utilization of the **UDP protocol** was crucial, offering essential advantages in terms of its necessity and benefits within this project's context.

### Discussion Forum

- Created a course-specific forum for students to request courses and ask queries; empowered instructors with management tools.
- Used ReactJS, FastAPI, and MySQL for seamless user experience; planned upgrades for real-time communication using **WebSockets**, authentication enhancement using **JWT**, and file sharing.

### Movie Recommendation Engine

- Crafted an advanced movie recommendation system by aggregating IMDB and Rotten Tomatoes data.
- Implemented the **k-nearest-neighbors** algorithm in sci-kit-learn and created impactful **Tableau** visualizations to illustrate the dynamic shifts in personal ratings, showcasing the models' performance evolution over time.

## TECHNICAL SKILLS

**Languages:** Java, Kotlin, JavaScript, Python, C / C++

**Databases & Tools:** RDBMS (MySQL), MongoDB, Redis, Docker, VCS (Git), GitHub Actions, Grafana, AWS

**Frameworks & Libraries:** SpringBoot, Hibernate, JPA

## RELEVANT COURSEWORK

Algorithms Toolbox (*UCSD, Coursera*), Database Management Systems (*NPTEL*), Docker and Kubernetes (*Udemy*), System Design Simplified (*InterviewReady*)

## ACTIVITIES

### Position of Responsibilities

- As **Joint Secretary** of **SAE**, represented IIT BHU in three national and one international automotive competition.
- **Event Executive** for **Axelerate** at Technex, annual technical fest IIT BHU during 2019-20.

### Achievements

- I was honored with the **NobleCTzen** award at ClearTax for exceptional dedication and hard work.
- Secured All India Rank- **7893** in JEE 2018 among the **1.1 million** attendees.