

SOURAV KUMAR

✉: souravkumar0546@gmail.com | ☎: +91 6283210929 | ▲: [linkedin.com/in/srv0546](https://www.linkedin.com/in/srv0546)

EDUCATION

Indian Institute of Technology – Bombay (IIT-B), Mumbai

- B.Tech. in Computer Science Engineering [2018-2022]

SCHOLASTIC ACHIEVEMENTS

- Achieved **97.1 percentile** in JEE Advanced 2018 out of 230,000 candidates
- Achieved **99.3 percentile** in JEE Mains 2018 out of 1.2 million candidates
- Achieved a Frontend Developer badge from **Meta** for completing a 9-course specialization
- Completed an 8-course **Google Data Analytics** specialization

PROFESSIONAL EXPERIENCE

Genpact | Software Development Engineer [Sep'22-Jun'24]

Library Book Management System

- Built a Library Book Management System on the **.NET** Framework for streamlined book borrowing and management
- Implemented secure user authentication and authorization using **Cookie-based Auth & Bcrypt** for password hashing
- Designed a user-friendly UI with role-based access, allowing admins to manage users and members to borrow books

Central Fee Billing – Fee Reversal Process

- Resolved a fee reversal API bug by using specific error codes, boosting support efficiency and issue resolution speed
- Created **integration tests** for the fee reversal process, ensuring accuracy in refunds, billing errors, and adjustments

Auto Dealerships - Legacy Forms Migration Project

- Created a **Python** script to automate data entry into an e-forms portal from accounting checks and purchase orders
- Implemented a solution that iterates over a folder of 10k+ dealership data PDFs, extracts essential fields, and updates an e-forms portal via backend API calls, improving accuracy and processing efficiency of data entry

Maker Bhavan Foundation | SDE Intern [Dec'20-Jan'21]

- Developed a mobile app with **React Native** and **C++** for locating positions inside a closed building using beacon signals
- Implemented trilateration using beacon data to accurately determine indoor positions within the building
- Enhanced positioning accuracy by applying a Kalman filter to effectively minimize noise in the location data

KEY TECHNICAL PROJECTS

Flight Notification System | Hackathon [July'24]

<https://github.com/souravkumar0546/FlightNotificationSystem>

- Developed a flight status notification system using **React** for the frontend and **Django** for the backend
- Integrated Apache **Kafka** for real-time message processing and **MongoDB** for scalable and efficient data storage
- Implemented user subscriptions for flight status updates via email and SMS using **Twilio** and **SMTP** protocols

Task Manager | Self Project [June'24]

<https://tasktrackhub.netlify.app/> | <https://github.com/souravkumar0546/TaskManager>

- Developed a task management app with **CRUD** operations, cookie-based user authentication, task filtering/search, and profile management with avatar upload/update
- Built the front-end with **React**, using reusable components and state management for efficient UI rendering
- Implemented the backend in **Go** using **Gorilla Mux**, with **JWT**-based authentication for secure middleware

Question Bank Application | Course Project: Software Systems Lab [Sep'19]

Guide: Prof. Amitabha Sanyal (Department of Computer Science Engineering)

- Developed a **user-authenticated** platform that enables uploading and editing of questions using **Django**
- Incorporated automatic paper generation feature, and a search and filter panel based on question tags
- Built a language model trained on Stack Overflow dataset using **NLTK API** for **automatic question tagging**

TECHNICAL SKILLS

Languages	Python, JAVA, C#, C++, Bash, Racket, SQL, GO
Web Development	HTML, CSS, JavaScript, Node.js, React.js, Django, Gorilla Mux
Software / Services	Android Studio, React Native, Git, Mockito, NUnit, Pandas, Excel, Numpy, Apache Kafka

EXTRA-CURRICULAR ACTIVITIES

- Served as Hostel 3 **Film & Media Secretary** contributing to cultural events and GCs [2020]
- Mentored a team of 4 in designing a remote-controlled car for **IITB XLR8** Bot Making Competition [2019]
- Completed **4.7 km run** and helped Hostel 3 to secure **1st position** in **Crossy GC** [2019]
- Completed 80 hours of service in **NSS** Sustainable Social Development, organizing campus cloth drives, educating school children on sustainability, and performing skits to highlight and solve societal issues [2018]