



EDUCATION

Year	Degree/Exam	Institute	CGPA/Marks
2024	B.TECH	IIT Kharagpur	8.58 / 10
2019	CBSE	Rani Laxmi Bai Memorial School	96.2%
2017	CBSE	Rani Laxmi Bai Memorial School	10 / 10

INTERNSHIPS

Blume Global Trainee Intern Bangalore, India	(May 2023-Jul 2023)
<ul style="list-style-type: none">Spearheaded a dynamic UI customization tool with drag and drop feature employing React.js, react-dnd, Java, Spring Boot and MySQLElevated capabilities by integrating dynamic form creation with radio, text, date, and calendar components, enhancing user experienceInnovated NLP based location search, using Spacy and Transformers, deployed a fusion of rule-based methods and fine tuning modelAchieved 80% accuracy via expert curation of location-based dataset, advancing Spacy training effectiveness and yielding improved results	
Fischer Jordan Software Developer Mumbai, India	(Dec 2022-Feb 2022)
<ul style="list-style-type: none">Engineered a versatile Google Sheets calendar via App Script, accompanied by a Python and Tkinter PC application for seamless usabilityEnhanced backend using Django, DRF, Docker, prioritizing PostgreSQL for optimized database performance and streamlined processesFortified system integrity by skillfully orchestrating task scheduling through Celery and ensuring reliability via comprehensive Unit TestsImproved user experience through React.js frontend work, created an Upwork scraper with Selenium and integrated Stripe for payments	
The DriveSales Full Stack Developer Bangalore, India	(Sept 2022-Oct 2022)
<ul style="list-style-type: none">Led alpha frontend with React, Formik, Yup, crafting an exceptional user experience through skillful engineering and library integrationDesigned the robust Restful APIs utilizing Express.js and MongoDB cluster, enabling seamless data storage, retrieval, and managementSet up Jenkins-GitHub CI/CD, optimizing EC2 deployment for frontend and backend servers, enhancing workflow efficiency and scalability	
Mswasth Tech Private Limited SDE Backend Intern	(May 2022-Aug 2022)
<ul style="list-style-type: none">Developed RESTful APIs utilizing DRF, incorporated features like custom model and soft-delete feature integration to ensure data integrityFormulated lab test booking, integrated APIs, enhanced UX with strategic file storage, streamlining processes for efficient user experienceManaged Celery-Redis queue, optimized API, MySQL, streamlined invoicing with django signals for enhanced performance and efficiency	

COMPETITION/CONFERENCE

Bronze Open Soft Captain Meghnad Saha Hall of Residence General Championship 2023	(Mar 2023-Apr 2023)
<ul style="list-style-type: none">Engineered an efficient cloud-based Kubernetes solution for precise expense analysis utilizing bank statements and transaction recordsSupervised microservice deployment on OpenShift, using YAML, Docker and OpenShift S2I for smooth cluster setup with load balancingPredicted salaries by analyzing transactions and calculating significant withdrawals and deposits, Created intuitive and user-centric UI/UX	
Movie Recommendation System Integrated with GUI Algozenith	(Dec 2022-Jan 2023)
<ul style="list-style-type: none">Expertly engineered collaborative & content-based movie recommender; designed interactive GUI using Tkinter for seamless experienceSkillfully implemented advanced techniques: accurate Cosine Similarity, keyword vectorization for highly personalized movie suggestionsAccomplished RMSE of 0.9 and MAE of 0.7 using Collaborative Filtering in Suprise library, smoothly integrated intuitive user-friendly GUI	

PROJECTS

Apnalnsti Developers' Society	(Dec 2022-Jan 2023)
<ul style="list-style-type: none">Developed an Institute-wide Mobile App using React Native for managing extra-curricular activities of a community of 10,000+ studentsEnhanced information accessibility by consolidating event, news, hall / department details, certificates, and more into a unified appDesigned intricate multi-app database schema and streamlined API structure to facilitate smooth app-server data exchange in projectBuilt Rest APIs for Buy & Sell Portal and Facilities Portal using DRF, used AWS EC2 as web server and AWS RDS (Postgresql) for database	
ChessFusion: Online, AI, and Duel Play Self Project	(Jun 2023-Jul 2023)
<ul style="list-style-type: none">Built JS chess game with move validation, Object Oriented Programming based game state, and implemented rules for game resultsEnhanced player experience by incorporating real-time moves through WebSocket integration, utilizing the capabilities of the socket.ioImplemented the play-with-computer feature by using a 5 layered minimax algorithm, optimizing it using alpha-beta pruning mechanism	
IVAR Lab Website Guide: Prof. Kaushal Kumar Bhagat Advance Technology Development Center IIT Kharagpur	(Nov 2022-Jan 2023)
<ul style="list-style-type: none">Developed IVAR Lab website, with integrated frontend-backend, spotlighting research, projects, and ensuring high-performance deliverySuccessfully deployed website locally via Nginx + Unicorn, integrating it with the IIT Kharagpur domain in collaboration with CIC IIT KGP	

POSITIONS OF RESPONSIBILITY

Hall President Meghnad Saha Hall of Residence	(Aug 2023- Present)
<ul style="list-style-type: none">Elected by an electorate of 510+ students to lead a 3-tier Hall Council consisting of 10 General Secretaries and 35 Secretaries for operationRepresenting MS Hall to the Students' Senate, proposed and implemented various resolutions for betterment of the student communityFormulating and executing a budget of INR 22 Lakhs in organizing various Sports, Tech, Cultural and Welfare activities for the hall boarders	

AWARDS AND ACHIEVEMENTS

- Achieved Mechanical Engineering department change (top1%); Top 40 **open-source** contributor in Code Peak 2022 (Dark-VEnOM-16).
- Attained a peak Codeforces rating of **1754** (username: aloo742), and hold a Codechef rating of **1618** (aa6245), being a **Div 2** coder.

SKILLS AND EXPERTISE

- Languages / Libraries:** C | Python | C++ | JavaScript | HTML5 | CSS3 | React.js | Django | Flask | Celery | Bootstrap | DRF | Ajax | Express.js* | MongoDB | React native | Java* | Spring Boot* | Jenkins | Selenium | Spacy | App Script | OpenShift* | (*Familiar)
- Software / Technology:** Jupyter | Linux | MySQL | WSL | Git | Aws* | Azure* | Postman | CI/CD | NLP* | Docker* | Kubernetes*