

AYUSH SAXENA

Software Developer

+91-9917691281 ayush.asax.saxena@gmail.com [linkedin.com/in/ayush-saxena-8b8213195/](https://www.linkedin.com/in/ayush-saxena-8b8213195/)

<https://github.com/ayushsaxenagithub> <https://ayushsaxena.in>

Education

Indian Institute of Technology Kharagpur

Jul'19 – May'24

Btech+Mtech (Dual Degree) - CGPA: 7.73/10

Work Experience

Turing | LLM Trainer

Jun'24 – Present

Develop and debug code and repositories created by Google Code LLM and Meta Agentic Code LLM, implementing complex application features and specialized data modules for large language model training.

- Built and maintained a distributed training codebase for Google's LLM projects using Flask/Django, designing custom data loaders and evaluation scripts to validate code outputs generated by LLMs during training
- Engineered serverless data pipelines (Lambda, DynamoDB, GCP VPS) to preprocess and batch-process LLM-generated code, improving training throughput by 35% via parallelized task execution
- Debugged and stress-tested RESTful APIs (Flask/Django on Kubernetes) used to orchestrate LLM training jobs, reducing API timeout errors by 50% through CloudWatch-driven optimizations
- Developed automated testing frameworks (pytest, unittest) to evaluate correctness of LLM-generated code outputs, resolving critical logic errors and achieving 99.5% validation accuracy for Meta's training workflows.
- Deployed CI/CD pipelines (CodePipeline, CloudFormation) for Meta's LLM training infrastructure, enabling zero-touch deployment of code evaluation tools and slashing manual intervention by 70%

TransOrg Analytics | Software Developer Intern

Jun'22 – Jul'23

- Engineered and maintained TransOrg Analytics & PicklAI systems with Python and proprietary in-house library for peak performance
- Sustained and updated companies' solutions on AWS using EC2, Boto3, Route 53, and S3 buckets for real-time modifications
- Introduced monitor users, sessions, IP addresses, and viewers per URL in the admin panel, reduced costs of external tracking services
- Enhanced admin panel security with middleware & RBAC to limit access to sensitive information exclusively to authorized personnel

Web Prism IT Solution | Software Developer Intern

May'21 – Jul'21

- Spearheaded ReactJS, Python, Django, and Rest API integration for seamless full-stack projects within a collaborative team
- Designed efficient and secure back-end systems with Django, RESTful APIs, authentication, and an optimized database architecture
- Engaged in code reviews, making substantive contributions, and embracing constructive feedback to cultivate continuous improvement

Projects

Driven Turbulence Analysis | MTech Project | Guide: Prof. Hari Warrior

Jul'23 – Dec'23

- Developed an advanced neural network model to predict the pressure strain in turbulent flows, focusing on 8 different variables
- Designed and meticulously trained a custom neural network specifically to predict Pressure Strain in complex flow scenarios accurately
- Achieved a Mean Squared Error MSE of $8.777e-07$, RMSE of 0.00093, and an R^2 of 0.98, enhancing predictive accuracy by over 98.75%

Learning Management System | IIT Kharagpur | Guide: Prof. Kaushal Kumar Bhagat

Jan'23 – Apr'23

- Developed a robust Python-backed web-based Learning Management System (LMS) by utilizing the comprehensive web tech stack
- Implemented user roles (admin, organization, teacher, student) with separate dashboards for an efficient course management system
- Established unique features for organizations, including teacher selection through domain email IDs and comprehensive user control
- Formulated Analytics Dashboard for the teachers: course performance insights, progress tracking, quiz integration in video lectures

Freelancers Marketplace | Self Project

Dec'21

- Established a freelancer marketplace with Django (Rest), and Python, enhancing user experience through advanced search capabilities
- Orchestrated dynamic features, spotlighted profiles, skills, projects, and pioneering project-tag search for comprehensive exploration
- Innovated an advanced comprehensive search engine, enabling seamless exploration of freelancers' & projects' names, owners, tags

Competition/Conference

Bronze | General Championship | Open Soft | Meghnad Saha Hall of Residence, IIT Kharagpur

2022 & 2023

- Led team to 3rd rank in 2023, built the dynamic financial and e-commerce product from scratch using the comprehensive tech stack
- Orchestrated real-time database integration using AWS RDS and a private database, showcasing technical prowess in containerization
- Devised a resilient solution for transaction tracking, leveraging AWS DynamoDB. Crafted a functional product with dual databases

Positions of Responsibility

Events Head | NAROE, IIT Kharagpur

Jul'21 - Jul'22

- Led a team of 30+ members to manage the annual departmental fest Samudramanthan with 200+ international participation
- Managed & planned events such as Convocation, Induction program, & Panel talks from the Alumni for the department's students
- Initiated & managed 10+ events from ideation to execution, including team structures, for seamless execution of Samudramanthan

Skills and Expertise

- Languages: Python | C++ | JavaScript | C | SQL
- Libraries: NumPy | Pandas | Matplotlib | Redux | ReactJS
- Cloud & DevOps: AWS (CodePipeline, CodeDeploy, CloudFormation, CloudWatch, X-Ray) | GCP Compute | Kubernetes | Docker | Jenkins | IaC
- Frameworks: Django (REST API) | AngularJS | Flask
- Technical skills: API Integration | API design knowledge | AWS

Extra Curricular

- Community: Served as an executive committee member at Sarth from 2019 to 2023, an NGO run by IIT Kharagpur students
- Sports: Basketball & Cricket team member at Meghnad Saha Hall of Residence for the 2022 General Championship, IIT Kharagpur