

Gautam Sharma

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EDUCATION

Indian Institute of Technology Guwahati, India

Nov 2021 - May 2025

Bachelors of Technology in **Computer Science and Engineering**

GPA: 8.46/10.0

Bachelors of Technology (Minor) in **Data Science and Artificial Intelligence**

EXPERIENCE

UiPath - Docs AI Team

July 2025 - August 2025

Software Engineer I

Bengaluru, India

- Created a **scalable content provider service** to fetch documentation content from various sources, using **factory design pattern**
- Increased the **number of eligible authors to publish content ten-fold**, saving \$100,000+/year for the company in **licensing**
- Abstracted away** the business logic of handling various sources to the backend via **exposing a single API on the frontend**

UiPath - Apps Team

May 2024 - July 2024

Software Engineer Intern, Internship

Bengaluru, India

- Implemented the **end-to-end feature** of **Copy and Paste of Rules** component in **UiPath Apps** from scratch in **MEAN Stack**
- Completed **proof of concept**, designed the **High and Low-level design documents**, did **unit and end-to-end testing**
- Merged code with coverage of **90+%**, **solved six scenarios** in which the feature can be used, received **Full Time Offer** to join

Zhang Lab, Purdue University

April 2025 - August 2025

Research Internship, Guide: Prof. Yongle Zhang

Indiana, USA (remote)

- Working on the concept of **Software Flexibility**, aiding in the debugging of in-production cloud systems
- Developed the concept of **Knob Injection**, which provides an easy way to alter a program's path during run-time

Pei Lab, University of Massachusetts Boston

April 2025 - August 2025

Research Internship, Guide: Prof. Shichao Pei

Massachusetts, USA (remote)

- Working on the concept of **backdoor attacks** on LLMs, particularly **Retrieval Augmentation Generation Systems**
- Proposed **model editing** as a replacement of **model fine-tuning** as a method to efficiently recover documents from RAG systems

AMaL Lab, IIT Guwahati

July 2024 - Present

Bachelor Thesis Project, Guide: Prof. Ashish Anand

Guwahati, India

- Proposed a **majority voting algorithm** using LLMs for the problem of **generating fine NER grain tags from raw sentences**
- Worked on Data Programming for fine-grained NER for Indic languages using **SpaCy**, **Skweak** and **Snorkel** NLP frameworks
- Studied LLMs such as **Llama**, **ChatGPT**, **Gemini** in **Few Shot setting**, and **various prompt settings** for the above problem

PROJECTS

Quantum Powered Business Rule Engine

Dec 2023

Group Project, **Gold Medal, 12th Inter IIT Tech Meet**, IIT Madras

bit.ly/3tCRDCf

- Built a business rule engine using **Quantum Computing**, employing DWave's **dwave-system** which makes the process of re-accommodating passengers affected by flight delays/cancellation **easier and faster over classical methods**
- Solved the famous **Passenger Recovery Problem** by formulating a mixed integer programme
- Used **Prune and Search**, **Flow Network Algorithms**, and **Multithreading**, used **Dynamic Programming** to speed up the process

DDoc: Blockchain-based secure document ecosystem



Jan - Feb 2024

Group Project, Kriti 2024, IIT Guwahati

bit.ly/3SHtfYL

- Created a **decentralized ecosystem** to **issue, receive and verify** documents for organizations and individuals
- Used **digital signatures** to prevent tampering of documents, and also implemented **Proof of Existence** for the documents
- Used **Solidity**, and **Truffle** to deploy the smart contract on **Sepolia TestNet**, hosted APIs through **Python**, developed frontend using **Flutter**, used **IPFS** for **decentralized storage** and also made a **custom trained chatbot** to support the application

Other Projects

- Trading System** : Trading system to **place, modify, and cancel orders, viewing current positions, subscribing to symbols**
- Restricted Cred ** : Novel algorithm for **optimal use of virtual machines for high performance on cloud architectures**
- DB in C ** : **Miniature Database Management System** inspired by SQL supporting addition and selection of entries

ACHIEVEMENTS

JEE Advanced 2021

Secured **AIR 530** among 0.15 million students across the country

2021

JEE Mains 2021

Secured **AIR 359** among 0.94 million students across the country

2021

KVPY SX 2021

Secured **AIR 397** and the KVPY scholarship given to **top 2000** students across the country

2021

APAC Terminal

Secured **Rank 4** at **Asia-Pacific Terminal** by **Citadel Securities** and **Correlation One**

2023

Abstractify-2023, IIT Delhi

Secured **Rank 3** among participants from top 8 IITs in the **Quant Winter Trading School**

2023

ICPC Mathura Prelims 2023

Achieved **AIR 163** among 1000+ teams

2023

Codeforces (max rating 1727)

Codeforces Round 881: Secured **Global Rank 90** among 28,000+ participants

2024

TECHNICAL SKILLS

- Programming:** C, C++, Solidity, Java, Typescript, Python, Dart, JavaScript
- Database Management:** MongoDB, SQL, PostgreSQL*
- Optimization frameworks:** Gurobi, OR Tools
- Miscellaneous:** Qiskit, DWave, L^AT_EX, Markdown, Bash*

KEY COURSES

Computer Science: Data Structures & Algorithms, Machine Learning, Computer Architecture & Organization, Database Management Systems, Computer Networks, Operating Systems, Deep Learning, High Performance Computing, Artificial Intelligence

Mathematics: Linear Algebra, Number Theory, Probability & Random Processes, Discrete Mathematics

POSITIONS OF RESPONSIBILITY

- Competitive Programming Head, Coding Club, IIT Guwahati**
 - Organized **India's first Inter College Camp for ICPC (IICPC)**, delivering lectures and contests to **6,000+** students