## About Me

Highly motivated and analytical Computer Science

SAI AMULYA KURAPATI

 +91-9949612050

Engineering student equipped with expertise in data

### Email

Linkedin

structures & algorithms, and database management systems. Possesses strong verbal and written communication skills honed through leadership roles and competitive events. Proficient in scaling, algorithmic optimization, and data crunching, with a strong command of Java, Spring, AWS, and database technologies.

## Skills

Programming Languages: Java, Spring, C++, C, Python

Databases: MySQL, MongoDB, RDBMS

Cloud Technologies: AWS

Web Technologies: HTML, CSS, JavaScript.

Tools: Git, Github, Linux

Other: Data Structures and Algorithms, Software System Design, Object-Oriented Coding, Problem Solving, Communication, Team Player, Leadership, Adaptability

## Certifications

Completed Fundamentals of Spring Boot Course by

[amulyakurapati1@gmail.com](mailto:amulyakurapati1@gmail.com) linkedin.com/in/amulyakurapati/

### Leetcode Github

[leetcode.com/amulyakurapati/](https://leetcode.com/u/amulyakurapati/) github.com/amulyakurapat

# Key Competencies

Analytical & Algorithmic Capabilities: Proficient in analyzing complex problems and designing efficient algorithms for large-scale applications.

CS Fundamentals & Data Structures: Sound understanding of core computer science principles and data structures, enabling effective software development. Database Management: Knowledgeable in RDBMS and NoSQL databases, including MySQL and MongoDB, for data storage and retrieval.

Software Development: Skilled in Java and Spring framework, with a focus on good programming practices.

Cloud Technologies: Proficient in Cloud Computing principles and technologies. Problem Solving: Adept at solving hard problems in large-scale distributed coordination, scaling, algorithmic optimization, operations research, and data crunching.

Communication & Leadership: Excellent communication skills with proven leadership experience demonstrated through various roles.

# Experience

Scaler (March - April 2025)

### Software Development Intern | Sails Software, Vizag

*June-Aug 2024*

Cloud Computing by Cybrary Course

Full Stack Web Development using MERN Stack | Cipher Schools (Oct – November 2024)

Data Structures & Algorithms using C++ | Cipher Schools (June– Aug 2024)

12-week NPTEL Online Certification in Cloud Computing (Jan – May 2024)

Introduction to Cybersecurity Fundamentals |

Coursera (Oct– November 2023)

Developed an Employee Self-Service Portal using Node.js and MongoDB to streamline HR processes and enhance employee autonomy.

Implemented key features such as leave application tracking, password management, and user authentication, resulting in a 30% reduction in HR administrative tasks. Contributed to improved employee satisfaction by providing a user-friendly interface for managing personal information and requests.

Tech stack: ReactJs, NodeJs, MongoDB.

Ethical Hacking: Cryptography | Cybrary (Aug–

### Freelancer | Sunflower Educational & Charitable Society

*June-Aug 2023*

September 2023)

## Achievements

Solved 100+ problems on LeetCode, highlighting expertise in Data Structures & Algorithms.

Earned a Dedicated Coder badge from Coding Ninjas, showcasing consistent coding and dedicated programming excellence.

 Built a dynamic website frontend using React to effectively showcase the organization's mission and services, increasing online engagement by 40%.

 Designed and implemented interactive components that improved navigation and engagement for potential donors, leading to a increase in online donations. Coordinated with the non-profit team to ensure the website accurately reflected the organization's goals and initiatives.



 Tech stack: HTML, CSS, ReactJS.

# Projects

Secured a Silver Badge on Code Chef, demonstrating problem-solving abilities in a competitive environment.

Secured first place in the LPU Essay Writing Competition & Gold Medal in National Level Essay Writing Competition, showcasing exceptional writing abilities.

Participated and excelled in various oratorical and debate competitions, showcasing strong verbal communication and persuasive skills.

Served as School Captain for three years,

AI Safety Incident Chatbot | AWS Bedrock + Claude 3 + RAG

Developed an intelligent chatbot to assist in **reporting, retrieving, and explaining AI safety incidents** using **Claude 3 via Amazon Bedrock** within a **Retrieval-Augmented Generation (RAG)** pipeline.



 Designed a **Stream lit -based conversational UI** for traceable, context-rich interactions

Used **Lang Chain agents** for query classification and dynamic response generation.



 Deployed on **AWS ECS** with containerization via **ECR**, secured using **IAM.**

demonstrating exceptional leadership,

### Pet Adoption App | MERN Stack

*Aug - Sept 2024*

organizational, and communication abilities.

## Education

Lovely Professional University Punjab

*B.Tech - Computer Science and Engineering; CGPA:*

Designed and developed a responsive and interactive pet adoption web application using React.js, featuring a user-friendly interface to facilitate pet adoption processing.

Implemented secure user authentication to ensure a personalized adoption experience.

Project Link: <https://github.com/amulyakurapat/petPals>

*7.7 August 2022 – Present*

Sri Viswa Junior College -11th & 12th

### What’s Up Dentist | ReactJS

*June - July 2024*

*Scored 92% June 2020 - March 2022*

Little Angels School

*10th Grade 91.1% April 2019 - March 2020*

Built a dental consultation website allowing users to book appointments online and get virtual consultations.

Demonstrates the use of ReactJS for front-end development. Project Link: <https://whatsupdentist.pages.dev/>