

# VAASU BISHT

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## EDUCATION

Year	Degree/Exam	Institute	CGPA/Marks
2026 (expected)	5-year Integrated M.Tech (CSE)	Vellore Institute of Technology, Bhopal	9.07
2020	AISSE (CBSE- Class XII Boards)	Delhi Public School Indirapuram	85.5 %
2018	AISSE (CBSE- Class X Boards)	Delhi Public School Indirapuram	88.8 %

## WORK EXPERIENCE

### Intern @ i3 Digital Health Private Limited

Dec '22 - July '23

Technology and Data Science Team

Remote

- Led the backend development of a healthcare product, collaborating with frontend developers and oncology experts to build a platform that provides doctors with easy access to the latest advancements in cancer biology.
- Handled eventual consistency issues arising from the implementation of third-party authentication.
- Debugged the existing code base to optimize database queries for better performance.
- Developed and deployed various ETL pipelines on AWS.
- Used AWS Step Functions for **30%** faster, **20%** cheaper distributed data processing with S3 and Lambda.

### Data Science Intern @ Supra Oncology Pvt. Ltd.

May '22 - July '22

Technology and Data Science Team

Remote

- Worked on various natural language processing and computer vision pipelines.
- Assisted in designing algorithms for an important business requirement.
- Assisted in the research and project planning

## PROJECTS

### Predicta: The prediction market

A highly scalable opinion trading platform build by integrated 6 microservices

- Optimized platform performance by integrating Redis for high-speed user session management (**99.9% uptime**), real-time order book matching, and dynamic price tracking, reducing response times by **60%**.
- Engineered event-driven communication using RabbitMQ, decoupling services and improving fault tolerance, while implementing database-per-service patterns (PostgreSQL, MongoDB) to isolate data domains and streamline queries.
- Integrated redis pub-sub with websocket to enable instant price broadcasting, achieving **<100ms** end-to-end latency.
- Designed and implemented a Saga orchestrator from scratch to manage distributed and complex workflow to ensuring consistency.

### AquaInsights: API as a Service for Real-time Water Quality

Developed a cost-effective water quality monitoring solution using satellite imagery for Bhopal region

- Utilized satellite imagery and GIS techniques to collect and analyze data from multiple lakes in the Bhopal region.
- Developed standardized data collection formulations and transformed them into a data pipeline, integrating diverse satellite data sources.
- Developed a data-fetching API using **node.js(typescript)** added API key to verify and manage user access.
- Created a web application using Next.js which implemented user authentication so user can access data using API .

### 3x3 Rubik's Cube Cracker

A project to showcase my Object Oriented Programming(OOPs) and Data Structure and Algorithm(DSA) skills

- Modeled a virtual Rubik's Cube into 3 difference models/classe using stadnard data structures present in C++
- Achieved a solve time of under **3sec** for Rubik's cube jumbled 8 times using BFS, DFS and IDDFS algorithms.
- Implemented Korf's IDA\* Algorithm to achieve a solve time of under **11sec** for a Rubik's Cube jumbled 13 times.

## AWARDS AND ACHIEVEMENTS

- **Cloud computing(NPTEL)**- Ranked among the top **30** out of **33,000+** participants,including students and professionals.

## SKILLS AND EXPERTISE

- **Languages** - Proficient : C++, Java, Python | Intermediate : SQL, JavaScript, TypeScript, Bash | Familiar : Go
- **Technologies and Frameworks**- Node.js, Spring Boot, Docker, Redis, RabbitMQ, MongoDB, PostgreSQL, Amazon Web Services, React.js, Next.js
- **Others**- Microservices, ACID Transactions, REST, Sequelize, Prisma

## POSITIONS OF RESPONSIBILITY

### Founder and Lead @ Omdena VIT Bhopal Chapter (2023-2024)

- Lead and managed three projects with collaborators from 40+ time zones. to develop innovative solutions to real-world challenges
- Representing college on a project with Omdena Algeria Chapter and multiple Algeria Universities.