

Tuhina Chakravarti

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Portfolio: tuhina.github.io | GitHub: [tuhina](https://github.com/tuhina) | LinkedIn: linkedin.com/in/tuhina-chakravarti-in

SOFTWARE ENGINEERING PROFILE

2x Intern at Celebal Technologies | Patent Holder | ML Researcher with SOTA 96.33% accuracy | 2x Dean's List (Top GPA in Sem V & VI) | 180+ LeetCode Problems Solved | Open Source Contributor | Proven record of delivering production-grade applications and innovative AI/IoT solutions

PROFESSIONAL EXPERIENCE

Celebal Technologies, Node.js Developer Intern (tuhina.com/apture)

June 2025 – Aug 2025

- Built an enterprise-grade appointment scheduling platform using Node.js/Express/MySQL, processing 500+ daily transactions with 99.8% success rate; implemented secure JWT authentication with 20+ API endpoints, reducing booking conflicts by 90%

Syn Steel and Bearings Co., Full-Stack Web Developer Intern

July 2024 – Aug 2024

- Launched the company's official website (synsteel.in) with responsive design, achieving 95% cross-device compatibility and increasing online presence and customer engagement by 40%

Celebal Technologies, Node.js Intern (tuhina.com/potbot)

June 2024 – Aug 2024

- Built an intelligent conversational system using Microsoft Bot Framework, Express.js, MySQL, and 12+ RESTful APIs, handling 1,000+ daily interactions with 85% query resolution

TECHNICAL PROJECTS & RESEARCH

Kinship Verification using Transformer Models (github.com/tuhina/kinship-verification-with-swin-transformer)

- Designed a kinship verification system using Swin Transformer within a Siamese Network, achieving 96.33% accuracy on the KinFaceW-II dataset; submitted to Springer Nature Discover Computing journal

Assistive Navigation System | Patent published (Application number - 202511066901) ([View Certificate](#))

- Engineered IoT-based navigation hat for visually impaired using Raspberry Pi, ultrasonic sensors, and haptic feedback, with real-time obstacle detection algorithm with 95% accuracy in varied environments

Enterprise Restaurant Management System (PotBot) (github.com/tuhina/PotBot)

- Built full-stack ChatBot using Node.js, Express.js, and MySQL handling 100+ concurrent users with 15+ RESTful API endpoints for menu management and order processing workflows

SKILLS

Programming & Development: Python, Java, C, JavaScript, PHP, Git, GitHub, Shell Scripting

Web & Backend Technologies: Node.js, Express.js, HTML, CSS, JWT, REST APIs, Responsive Design

Data & Machine Learning: SQL, MySQL, MongoDB, scikit-learn, TensorFlow, PyTorch, Deep Learning, Machine Learning, Transformers, OpenCV, Computer Vision

Systems & Hardware: Unix/Linux CLI, TCP/IP, Networking, Arduino, Raspberry Pi, Microsoft Bot Framework, Postman

ACHIEVEMENTS & CERTIFICATIONS

180+ LeetCode Questions (leetcode.com/u/tuhina, [100-Day Badge](#))

July 2025

- 180+ total questions solved on various topics, including DSA in Python and SQL. 50 and 100 day LeetCode badge, indicating consistency

Dean's List for Academic Excellence, MUJ ([View Certificate](#))

May 2025

- Felicitated by the Dean of Engineering for achieving the highest grade point average in Semester V and VI

Certifications, Cisco Networking Academy ([View Credentials](#))

April 2025

- Cybersecurity Essentials & Introduction to Cybersecurity, Python Essentials 1&2, CCNA (ITN, SRWE, ENSA)

Elite Rank in Design and Analysis of Algorithms, NPTEL ([View Certificate](#))

October 2024

Top 20 Teams, Techno-Entrepreneurial Bootcamp, MUJ ([Ideathon](#))

August 2024

- Ranked among top 20 teams out of 200+ participants in business technology innovation challenge

LEADERSHIP & RESPONSIBILITIES

Oneiros'24, MUJ, Core Committee for Major Events

Jan 2024 – Feb 2024

- Orchestrated major events coordination managing 200+ team members and 8000+ attendees
- Delivered seamless execution of technical competitions and cultural programs within tight deadlines

ENACTUS Chapter, MUJ, Joint Head of Content

July 2023 – April 2024

- Led development of DHI mobile app empowering rural communities with government schemes and health resources

EDUCATION

Manipal University Jaipur, B.Tech Computer Science and Engineering (Honours in IoT & Intelligent Systems) **Expected 2026**

- CGPA: 8.39/10 (Highest GPA: 9.73/10)
- Relevant Coursework:** DSA, Machine Learning, Cryptography, Object Oriented Programming, RDBMS, OS, Computer Networks

Telangana State Board, Higher Secondary Education (XII)

2022

- Percentage: 90.4%

Army Public School, Sukna (CBSE), Secondary Education (X)

2020

- Percentage: 93.2%