

# Tushar Bhardwaj

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## Education

Lovely Professional University, Jalandhar

B.Tech in Computer Science and Engineering

August 2022 – Present

CGPA: 8.61/10

## Experience

Microsoft

June 2025 – August 2025

Software Engineer Intern

Bengaluru

- Developed **ControllerSync**, a Kubernetes custom controller in Golang that applies shard-based consistent hashing to evenly balance custom resources across replicas.
- Engineered automatic shard redistribution and lease-based leader election, achieving **99.95% uptime** and significantly reducing reconciliation latency.
- Optimized shard coordination logic, enabling **2× faster horizontal scaling** and lowering CPU utilization by **28%** under peak cluster workloads.
- Strengthened cluster resilience by enabling seamless failover and zero data loss during replica scale-up/down events across clusters with **500+ nodes**.

## Projects

**Spotlight - AI-Powered Webinar & Sales Platform** | *Next.js, Node.js, Vapi AI, Pinecone, OBS, PostgreSQL*  [GitHub](#)

- Increased lead conversion rate by 45% by deploying AI-powered sales agents in breakout rooms, enabling automated voice interactions and instant call-to-action execution.
- Boosted attendee engagement by 50% through real-time CTAs, product pop-ups, and personalized lead funnels integrated into webinar streams.
- Accelerated sales cycle tracking by 60% with an adaptive lead pipeline, automated follow-ups, and AI-assisted status progression, while ensuring secure multi-role access via Clerk.
- Reduced streaming latency by 35% via OBS/WebRTC integration and optimized session management using the Stream SDK.

**Hire Me - Full Stack Job Portal** | *MongoDB, Express.js, React, Node.js, Clerk, Sentry*

 [GitHub](#)

- Transformed job seeker experience, increasing user engagement by 40% through seamless job search, resume uploads, and application tracking.
- Boosted hiring efficiency by 35% by implementing recruiter dashboards for job posting, application management, and candidate evaluation, streamlining the recruitment process.
- Revamped system performance, reducing database response times by 30% through leveraged MongoDB queries using Sentry, ensuring faster and smoother user interactions.

**Snappy - Realtime Chat Application** | *React, MongoDB, Express.js, Socket.io, Node.js*

 [GitHub](#)

- Achieved 99.9% uptime, ensuring seamless real-time communication with minimal latency, enhancing user experience and engagement.
- Optimized WebSocket connections, reducing server load by 40%, leading to improved scalability and performance.

## Technical Skills

**Languages:** C++, Python, Golang (Go), TypeScript, JavaScript, SQL

**Frameworks & Libraries:** React.js, Node.js, Express.js

**Databases:** MongoDB, PostgreSQL

**Developer Tools:** Git, Docker, Kubernetes, Azure, VS Code

**Core CS Topics:** Data Structures & Algorithms, Object-Oriented Programming, Multithreading & Concurrency, Operating Systems, Computer Networks, Database Systems (DBMS), System Design

**Special Interests:** Performance Optimization, Distributed Systems, Parallel Computing

## Achievements

- Secured a position in the Dean's List, representing the **top 1%** of the college for academic excellence.
- Secured **7th position** in the New Year Codeathon 2025, organized by Saksham AI and supported by Microsoft.
- Technical Head of a student coding **community**, followed by 3,000+ students.
- Ranked in the **top 0.1% mentors** on **Topmate**, recognized for impactful mentorship and guidance.
- Solved **1000+ DSA problems** and maintaining a **650+ day streak** on **LeetCode**, demonstrating consistency and coding efficiency.
- Div3 on **CodeChef** with a **850+ days streak**.
- Winner of Unstop Giveaway, recognized for active participation in tech competitions