

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

Software Engineer Intern

June 2025 – August 2025
Bengaluru

- Built **ControllerSync**, a production-grade Kubernetes controller in **Golang** using shard-based consistent hashing to distribute and manage **CustomResourceDefinitions (CRDs)** efficiently across controller replicas.
- Implemented **lease-based leader election** and automatic shard reassignment, maintaining **99.95% system availability** while minimizing reconciliation overhead.
- Redesigned the shard coordination mechanism, achieving **faster horizontal scalability** and reducing **CPU utilization by 28%** under peak workloads.
- Enhanced fault tolerance through replica-aware failover logic, ensuring zero state loss during node restarts and maintaining stability across **500+ node clusters**.

Projects

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

- Increased lead conversion by **15%** through deployment of AI-based sales agents in breakout rooms, enabling voice-driven interactions and instant call-to-action execution.
- Enhanced attendee engagement by **20%** via real-time CTAs, product pop-ups, and personalized lead funnels integrated into webinar sessions.
- Improved sales tracking efficiency by **30%** using an adaptive lead pipeline with intelligent follow-ups and AI-assisted status progression, ensuring secure role-based access via **Clerk**.
- Reduced streaming latency by **25%** through optimized **OBS/WebRTC integration** and session management with the Stream SDK.

PulseAI Prep – AI-Powered Interview Assistant | *Next.js, TypeScript, Gemini API, Firebase, VAPI* [GitHub](#)

- Developed an AI-powered mock interview platform supporting real-time voice interviews, improving preparation experience for over **100 users**.
- Integrated the **Gemini API** for adaptive question generation and automated scoring across communication, technical, and analytical dimensions.
- Implemented secure authentication and data analytics using **Firebase Auth** and Firestore, achieving **99.9% uptime** and reliable user performance tracking.
- Reduced response latency by **35%** via optimized streaming through **VAPI**, enhancing conversational realism in AI-led sessions.

Hire Me – Full Stack Job Portal | *MongoDB, Express.js, React, Node.js, Clerk, Sentry* [GitHub](#)

- Built a full-stack job portal enhancing candidate experience by **30%** through seamless job discovery, application tracking, and resume management.
- Designed a recruiter dashboard for job posting, candidate evaluation, and progress tracking, reducing the hiring cycle by **35%**.
- Optimized backend APIs and MongoDB queries, reducing average response time by **15%** and improving overall system scalability.

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, , Operating Systems, Computer Networks, Database Systems (DBMS), System Design

Achievements

- Secured a position in the Dean's List, representing the **top 10%** of the college for academic excellence.
- Secured **7th position** in the New Year Codeathon 2025, organized by Sakshm 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.
- Achieved a **LeetCode Contest Rating of 1600** with **1000+ problems solved** and a **720+ day streak**, demonstrating strong algorithmic knowledge and coding proficiency.