TUSHAR BHARDWAJ

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Education

Lovely Professional University, Jalandhar **August 2022 – July 2026**
B.Tech in Computer Science and Engineering *CGPA: 8.61/10*

Experience

CipherSchools **Jan 2025 – Feb 2025**
Program Management & Operations Intern *Chandigarh*
- Streamlined operations for cohort-based programs with 500+ participants, improving query response time by 30% through refined policies and optimized communication workflows.
- Analyzed program data to identify trends, implementing strategic changes that increased engagement rates by 20%.
- Developed structured performance tracking in Excel/Google Sheets, streamlining data analysis and reducing reporting effort by 30%, enabling data-driven decision-making.

LeetCode **Apr 2024 – Aug 2024**
Content Problem Reviewer and Solution Author *Remote*
- Conducted quality control on 120+ problem statements, leading to a 15% boost in user engagement and retention.
- Reviewed and revised problem descriptions, constraints, and examples to ensure clarity and consistency across the platform.
- Collaborated with the content team to enhance test cases and difficulty ratings, improving problem-solving experience for users.

Projects

Hire Me - Full Stack Job Portal | *MongoDB, Express.js, React, Node.js, Clerk, Sentry*
- Enhanced 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.
- Improved system performance, reducing database response times by 30% through optimized MongoDB queries using Sentry, ensuring faster and smoother user interactions.

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

MazeMaster - Maze Generation & Solving Visualizer | *JavaScript, HTML, CSS, Graph Visualization*
- Built a dynamic web page that generates mazes using advanced algorithms like Depth-First Search, Kruskal, Prim, Wilson, Aldous-Broder, and Recursive Division.
- Integrated smart solving techniques such as Breadth-First Search, Bidirectional BFS, Greedy Algorithm, Dijkstra, and A* to navigate through complex mazes efficiently.
- Developed using HTML, CSS, and JavaScript, leveraging Data Structures & Algorithms (DSA) to create an interactive and optimized maze-solving experience.

Technical Skills

Languages: C++, Python, TypeScript, SQL, PHP, JavaScript, HTML, CSS
Frameworks & Libraries: React.js, Express.js, Node.js
Databases: MongoDB, PostgreSQL
Developer Tools: Git, VS Code, Docker, Sentry
Core CS Topics: Data Structures, Operating Systems (OS), Networking, Database (DBMS), System Design

Achievements

- Div3 on **CodeChef** with a 710+ days streak.
- Solved 1,200+ DSA problems across platforms, maintaining a 500+ day streak on **LeetCode**.
- Technical Head of a student coding **community**, followed by 3,000+ students.
- Secured 7th position in the New Year Codeathon 2025, organized by Sakshm AI and supported by Microsoft.
- Winner of Unstop Giveaway, recognized for active participation in tech competitions.