

Harsh Kumar

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Education

Arizona State University	May 2025
<i>Bachelor of Science in Computer Science (GPA: 4.0)</i>	Tempe, AZ
<ul style="list-style-type: none">• Moeur Award Recipient. Dean's List for eight semesters consecutively.• Relevant Coursework: Operating Systems, Distributed Software Development, Web Information Systems	

Work Experience

Mindspark	Oct 2025 – Present
<i>AI Engineer</i>	Remote
<ul style="list-style-type: none">• Engineered a zero-downtime production data migration for the Kairos Aurora PostgreSQL database (0 deltas across 18 tables) by building a read-only FDW pipeline and insert-only loaders.• Cut transfer costs to \$0 and minimized latency through same-AZ traffic and a self-referencing SG rule; ensured data integrity via count-parity and anti-join verification suites.• Authored the Migration Runbook and automated end-to-end deployment via CI/CD pipelines, enabling repeatable, fault-tolerant migrations and cross-team alignment under 2-hour change windows.• Improved maintainability and security post-cutover by generating schema diffs, ERDs, and removing temporary FDW objects after validation.• Tested and improved an AI system that creates full classroom workshops, running 16 structured evaluations that increased accuracy and reduced errors in the generated lesson materials.• Built and refined prompts used by six different OpenAI models, raising the system's reliability to 95 percent and helping teachers get ready-to-use lesson plans with far less manual work.	
Mindspark	Aug 2025 – Oct 2025
<i>Frontend Developer</i>	Remote
<ul style="list-style-type: none">• Delivered scalable React components integrated with the existing CMS, improving user retention by 18% through SEO optimization and performance tuning.• Integrated REST APIs on AWS Lambda into distributed front-end workflows, reducing load times by 35%.	
Velocity Tech Inc.	Jan 2024 – Dec 2024
<i>Full-Stack Engineer Intern</i>	Remote
<ul style="list-style-type: none">• Delivered ERP Contract Management System used to streamline contractor hiring pipeline.• Automated resume parsing with Express + OpenAI API, reducing manual data entry workload by 60%.• Built interactive React UI components with auto-fill functionality, improving contractor onboarding efficiency.• Designed scalable PostgreSQL + Amazon S3 integration for secure document storage and retrieval.	

Skills

Languages: C++, C#, JavaScript, TypeScript, Python

Frameworks & Libraries: React, Node.js, Express, ASP.NET

Databases & Cloud: PostgreSQL, MongoDB, AWS, Firebase, Azure, Redis

Tools: Git, Docker, LaTeX, REST APIs, Microservices, CI/CD

Volunteer Experience

Section Leader	Apr 2025 – Jun 2025
<i>Stanford University</i>	
<ul style="list-style-type: none">• Led weekly 50-minute Python sessions for a 10-student cohort, sustaining 85% average attendance and achieving 60% on-time assignment submissions.• Delivered interactive lectures and 24 one-on-one mentoring sessions, boosting engagement and mastery of core CS concepts.• Collaborated with 1,400+ global instructors to expand equitable access to computer science for 20,000+ learners worldwide.	