# Harsh Kumar

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## Education

**Arizona State University**                                                                        Expected May 2025
*Bachelor of Science in Computer Science (GPA: 4.00 / 4.00)*                                    *Tempe, AZ*
- **Relevant Coursework:** Data Structures and Algorithms (C++), Design and Analysis of Algorithms, Operating Systems, Distributed Software Development (C#), Web Information Management System (Node.js), Computational Theory.
- Dean's List for seven semesters consecutively.

## Experience

**Velocity Tech Inc.**                                                                            Jan 2024 – Dec 2024
*Software Engineer Intern*                                                                            *Remote*
- Developed an ERP Contract Management System for hiring contractors with **Velocity Tech Inc.** as part of Arizona State University's Capstone Project.
- Automated resume parsing using Express and OpenAI's API, reducing manual data entry by 60%.
- Developed interactive React-based UI components, simplifying navigation across multi-tab user-profiles and autofill features for contractor profiles.
- Architected a scalable PostgreSQL database, integrated with Amazon S3 to securely store and manage resume files.

**Academic Support Network**                                                                        Jan 2024 – Present
*Tutorbot Content Engineer*                                                                            *Tempe, AZ*
- Collaborated in designing and deploying Arizona State University's AI-driven **Tutorbot**, conducting user acceptance testing to ensure optimal performance.
- Created and QA-validated 50+ mathematical resources using LaTeX with labeling markers and supervised learning, enabling the integration of Calculus I and II courses into Tutorbot, now supporting over 4,000 students.

## Projects

**SuperTutor - Interactive Learning Platform - Second Place at HackSoDA '24** | *React, FastAPI, SQLite, AWS* | Link
- Built a full-stack educational platform through real-time AI-driven grading and personalized audio prompts using Google Cloud Text-to-Speech.
- Optimized backend architecture with SQLAlchemy and SQLite, improving database query efficiency by 20%, and dynamic content rendering with Pandoc.
- Awarded **Second Place at HackSoDA '24** by creating an innovative solution that enhances user engagement and learning outcomes through intelligent feedback and accessible learning tools.

**ZipInformer** | *C#, XML, ASP.NET, MVC*
- Built a .NET microservices application that retrieves city-level data (population, elevation, crime, disasters, weather, AQI, news) from multiple external APIs (FEMA, OpenDataSoft, CDE) based on user-provided zip codes.
- Implemented asynchronous API calls, secure XML-based login/registration, CAPTCHA verification, and integrated JSON responses into a responsive C# front-end and ASP.NET for back-end.

## Clubs and Organizations

**Technical Director**                                                                            Jan 2022 – Dec 2022
*Software Developer's Association*
- Demonstrated leadership by planning and coordinating semester-long technical presentations and updating and maintaining the organization's website with React, enhancing member engagement by 20%.
- Spearheaded the **Annual Coding Bootcamp 2022** for 150 participants, leading a seminar on **Kotlin, XML, and Android Studio**, where nearly all attendees successfully developed their first Android app.

## Technical Skills

**Languages**: C++, C#, JavaScript, TypeScript, Java, Python, HTML/CSS, XML, Kotlin, Scheme, Prolog, SQL, Git
**Frameworks**: React, Express, Bootstrap, Flask, ASP.NET, Node.js, Android SDK
**Backend Skills** : REST API, Microservices, Database Optimization, Scalability, Cloud Computing
**Developer Tools**: AWS, Figma, Git, Docker, LaTeX
**Certifications**: Microsoft Azure AI Fundamentals (AI-900)