

Harsh Kumar

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Education

Arizona State University

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.
- Recipient of **Moeur Award**. Dean's List for eight semesters consecutively.

Experience

Academic Support Network

Jan 2025 – May 2025

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.

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.

Projects

SparkyAI - Winner at ASN+PIA Design Competition '25 | *React, Firebase, OpenAI API, Netlify* | [Link](#)

- Developed full-stack React application with Firebase backend integrating OpenAI API, featuring user authentication, real-time chat interface, and comprehensive progress tracking across 13 gamified achievements.
- Architected conversation memory system maintaining 10+ message context windows and implemented time-tracking analytics to measure active writing engagement versus idle time.
- Led cross-disciplinary development team to **unanimous first-place victory** in 2025 ASN+PIA Design Competition, defeating 30+ competing projects with innovative gamification approach to writing education.

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, SQL

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 \(AI-900\)](#)