

Avneet Ahuja

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EDUCATION

**Bachelor Of Science,
Computer Science**

Arizona State University

GPA: 4.0 (Dean's List)

**Expected May 2024
Tempe, AZ**

RELEVANT COURSES

Machine Learning (A+), Distributed Software Development (A+), Data Structures and Algorithms (A+), Linear Algebra (A+), Probabilities and Statistics (A), Discrete Math (A), Operating Systems(A+), Software Engineering (A), Information Assurance (A+), Assembly Programming (A+), Calculus I, II, III (A+, A, A+).

TECHNICAL SKILLS

Programming Languages: Java, JavaScript, Python, C/C++, Bash Scripting, Scheme, SwiftUI, HTML, CSS, React.js, C#

Devops Skills: AWS, Ansible, Vagrant, Terraform, Docker, Jenkins

Game Development and Animation: Blender, Unreal Engine, Unity, GameMaker2

Databases: MySQL, PostgreSQL, MongoDB

WORK EXPERIENCE

Developer,

NASA Psyche Mission

**August 2023 - Present
Tempe, AZ**

- Steering continuous advancement of an educational Unity3D game, achieving a ~25% increase in user engagement and a 22% improvement in overall game performance.
- Accelerated project schedule, on pace to finish the project 25 days before initially set finish date.
- Applying advanced game physics mechanics, resulting in a 15% reduction in user-reported glitches and an increase in overall user satisfaction, enhancing the seamless and immersive experience.

Tutor,

Arizona State University

**January 2023 - Present
Tempe, AZ**

- Guiding students in reviewing concepts, leading to a ~40% average improvement in student retention levels.
- Tutoring 25+ students per hour, offering expert guidance on Java, C++, Python, Calc I, II, III, Statistics, ML, and AI, resulting in a 98% satisfaction rate based on student feedback.
- Conducting targeted exam review sessions frequently, contributing to an average increase in student performance across exams, quizzes, assignments, and class projects.

PROJECT EXPERIENCE

VitalWell,

Class Project

August 2023 - December 2023

- Worked with 2 team members to build a healthcare website on .NET Framework and used XML for database.
- Developed and implemented a secure login system with image CAPTCHA functionality and custom encryption, decryption algorithm for enhanced user authentication reducing unauthorized access by 60%.
- Orchestrated integration of external APIs to enable dynamic features such as personalized diet plans and symptom-based disease identification, resulting in a 30% increase in user engagement and satisfaction.

Automated Attendance System,

Personal Project

December 2023 - January 2024

- Engineered an attendance system utilizing Python's face_recognition, pandas, and NumPy library.
- Implemented secure teacher login for streamlined class-specific data retrieval from CSV files.
- Reduced workload by 70% through report generation allowing faculty to share summaries with administrators.
- Implemented a review dashboard where teacher can view attendance charts/trends over weekly intervals.

SwiftRide,

Class Project

January 2024 - February 2024

- Created an Uber like iOS app, leveraging SwiftUI for UI, Firebase for storage, and ViewModel for communication.
- Integrated remote APIs to enhance operations, including real-time location updates for both passengers and drivers.
- Designed a visually appealing and modular user interface by leveraging SwiftUI's features and incorporating the MapKit framework for mapping functionalities in SwiftRide.