David Shahi

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EDUCATION

California Polytechnic University, Pomona   **3.7 GPA**
Bachelor of Science, Computer Science

SKILLS

- **Programming Languages:** Lua, C#, Java, Python, C++, C, Dart, JavaScript, HTML, CSS
- **Software Development:** Object-Oriented Programming, Algorithms & Data Structures, Unit Testing
- **Technologies & Frameworks:** Unity, Flask, Firebase, Flutter, Android Studio, MySQL, API Integration
- **Tools & Platforms:** GitHub, VS Code, IntelliJ, Microsoft Visual Studio, Eclipse, NetBeans
- **Operating Systems:** Linux (Ubuntu, Terminal)

EXPERIENCE

1. Conway's Game of Life (Lua & LÖVE2D)
- Developed an interactive simulation of Conway's Game of Life using Lua and the LOVE2D framework.
- Learned Lua from scratch and applied object-oriented programming principles using metatables and custom cell logic

2. VR Sword & Pistol Experience - Unity, C#
- Designed and developed a VR gaming experience with interactive sword combat and shooting mechanics.
- Implemented physics-based interactions for realistic weapon handling and optimized performance for VR headsets.
- Integrated user-friendly UI interactions and scene transitions for an immersive player experience.

3. Mobile App - Squad Seeker (Published here)
- Developed a social networking app for gamers to find teammates, emphasizing user-generated content and profile customization.
- Engineered a matchmaking algorithm to pair users based on skill level, language, and game preferences.
- Implemented a Firebase-powered rating and feedback system to enhance player reputation tracking.

4. TrustEduAI: AI-Based Polling App for Math Education
- Developed a dynamic polling app that generates math questions with adaptive difficulty based on user responses.
- Integrated OpenAI's API and optimized backend logic for real-time feedback and user engagement.
- Debugged API issues, improving system reliability and response accuracy.

5. 24 Hour Hackathon Web Application: On-Campus Dining Guide
- Built a web app for campus dining, leading the implementation of a dietary preference filtering system.

6. Python File Organizer Automation Script
- Developed a Python script to automate file organization, improving desktop efficiency and reducing manual sorting time

CERTIFICATIONS

Oculus Quest Development with Unity (Udemy): VR development using XR Interaction Toolkit, UI Interactions, VR Slicing, and VR Scene Loading.
Complete C# Unity Game Developer 3D (Udemy): Focused on mastering C# programming in Unity