Gaurav Subedi

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Education

The University of Texas at Arlington, BS in Computer Science   Aug 2024 - May 2028
- GPA: 3.8/4.0
- **Coursework:** CS50's Introduction with Python (edx), Fundamentals of Programming , Calculus I and II, Discrete Structures, Data Structures and Algorithms, Object Oriented Programming

Experience

Application Development Intern (C#, SQL, Azure DevOps, CI/CD Pipelines, REST APIs)   Jun. 2025 – Aug. 2025
Oak Hill Advisors | Fort Worth, Texas
- Developed a C# service using Adobe Workfront's REST API to sync ticket data into Microsoft SQL Server, enabling centralized access to project data within internal systems and improving reporting efficiency and cross-team visibility.
- Designed and managed CI/CD pipelines in Azure DevOps using XML configurations and JAMS for backend deployment automation, while resolving tickets through Adobe Workfront to streamline delivery and improve system reliability.
- Developed and maintained backend logic using C# and SQL to automate daily, weekly, monthly, and quarterly trade reports
- Enhanced a legacy Excel reporting system (VSTO) by tracing data flow, resolving inconsistencies, and implementing backend fixes to improve accuracy and timeliness.

Projects   github.com/gaurav-subedi

Face and Gesture Detection System (Python, OpenCV, MediaPipe, WebSockets, C# (WinForms))
- Developed a real-time face and hand gesture detection system, enabling dynamic UI updates and gesture-based interactions.
- Integrated Python AI models with C# UI via WebSockets, achieving a 30% improvement in response time.
- Enhanced detection accuracy by implementing OpenCV's Haar Cascade for face recognition and MediaPipe for gesture tracking.
- Optimized real-time data streaming through a multi-threaded WebSocket server, improving system responsiveness.

To-Do List Web App (React.js, Django REST Framework, PostgreSQL)
- Developed a full-stack to-do list app using React and Django REST API to manage tasks across sessions via PostgreSQL.
- Improved task tracking experience by designing a responsive UI and integrating RESTful endpoints for CRUD operations.
- Enabled seamless frontend-backend communication by implementing CORS and JSON-based API handling.

Snake Game (C# (WinForms), Game Development)
- Developed a classic Snake game in C# with real-time controls, implementing a responsive game loop using Timers for smooth movement, collision detection, and automatic food generation.
- Designed and rendered all game elements using the C# Graphics API, delivering a visually engaging and interactive gameplay experience.

Organizations and Honors

Alpha Lambda Delta: Member	Jan. 2025- Present
Mavericks Academic Scholarships	Aug 2024- May 2028
Leo Club of Kathmandu Creative: Active Volunteer	May 2022- March 2023
Trinity Science Club: President	July 2022- May 2023

Skills

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

Technologies: .NET, React.js, Node.js, Flask, Django, WebSockets, WinForms, SQL, Azure DevOps, REST APIs, OpenCV, MediaPipe, Git/GitHub, Raspberry Pi