Numaan Suhaff

Gelugor, Penang, Malaysia  
Email: numaanhussain121@gmail.com | Phone: +91 6006391802 / +60 173764132  
LinkedIn: www.linkedin.com/in/numaansuhaff | GitHub: github.com/suhaff | Portfolio: Suhaffinity.com

# Professional Summary

Third-year Computer Science student, Software Developer, and Game Developer with a strong foundation in AI, Machine Learning, and Full-Stack Development. Experienced in building research-driven projects, real-world applications, and innovative platforms. Developed and deployed systems ranging from Continual Learning anomaly detection to real-time sentiment analysis APIs, as well as a 2D tactical game. Skilled in both academic research and end-to-end software product development, with proven leadership, problem-solving, and project-handling capabilities.

# Core Skills

Programming Languages: Python, C, C++, JavaScript, SQL

Web & Software Development: HTML5, CSS, React.js, Next.js, Vue.js, Node.js, Django, Flask, Tailwind, REST APIs, Microservices

AI & Machine Learning: PyTorch, TensorFlow, NLP, Transformers, Vision Transformers (ViT), DNE, Continual Learning, LLM Integration

Game Development: Unity, C#, 2D Game Mechanics, Multiplayer Logic, Physics Simulation

Databases & Cloud: PostgreSQL, MongoDB, AWS S3, Firebase, Google Cloud, Colab, Anaconda

Tools & IDEs: GitHub, Jupyter Notebook, CiRA CORE Desktop, VS Code, Visual Studio, GitLab CI/CD

Soft Skills: Leadership, Team Handling, Project Management, Problem Solving, Research Writing, Communication

# Projects & Research Experience

* Continual Anomaly Detection using ViT + DNE on MVTec Dataset (2025)

Developed a continual learning framework for industrial anomaly detection using Vision Transformer backbone and Deep Nearest Embedding (DNE). Designed accuracy matrix logging, visualization, and task-split incremental learning.

* Arena – 2D Tactical Shooter Game (2023)

Developed a 2D tactical shooter inspired by Mini Militia. Implemented shooting mechanics, tactical movement, and multiplayer systems in Unity with C#.

* AI-Powered Personal Productivity Assistant (2024)

Built a cross-platform assistant integrating calendar, tasks, and email with AI/ML for scheduling and prioritization. Used React/Flutter, NLP, and cloud microservices.

* Distributed File Storage with Blockchain Verification (2024)

Designed a P2P distributed storage system with blockchain-based hashing and consensus protocols for file integrity and trust.

* Smart Healthcare Monitoring Platform (2024)

Developed an IoT platform with wearable integration to monitor health metrics and detect anomalies using AI on cloud pipelines.

* Automated Code Review & QA Tool (2024)

Created an AI-powered tool for static code analysis, style checking, and ML-based fix suggestions, integrated with CI/CD pipelines.

* Real-Time Collaborative 3D Virtual Workspace (2024)

Built a browser-based 3D collaborative workspace with WebRTC for real-time communication and Three.js for 3D rendering.

* Real-Time Sentiment Analysis API (2024)

Developed an API to perform sentiment analysis in real time using Reddit, with fallback on IMDb and Amazon reviews.

* Full-Stack Job Board with AI Resume Matching (2024)

Built a job platform with AI-based resume-to-job matching. Used React/Next.js, Node.js/Django, and AI APIs.

* E-Commerce Store with Customizable Products (2024)

Developed an online store where users can design and preview products in real time, with Stripe/PayPal integration.

* Real-Time Chat & Collaboration App (2024)

Created a Slack/Discord-style collaboration app with live chat, file sharing, and team interaction features.

* CiRA CORE Image Classifier (2024)

Built an image classification pipeline using CiRA CORE Desktop with custom datasets, exploring low-code ML deployment.

# Education

Bachelor of Computer Science (Software Engineering)  
Universiti Sains Malaysia (USM), Penang, Malaysia (2024 – 2027)

B-Tech in Data Science (Transfer Year)  
Amity University, Noida, India (2023 – 2024)

Higher Secondary & High School (Science Stream)  
Burn Hall Higher Secondary School, Srinagar, India (2008 – 2023)

# Leadership & Strengths

• Leadership in academic projects and ability to manage teams  
• Strong adaptability, quick learner across AI, web dev, IoT, and games  
• Proven project-handling and delivery under deadlines  
• Combination of technical expertise and creative innovation

# Languages

Kashmiri – Native

English – Fluent

Hindi/Urdu – Fluent

Arabic – Conversational

Thai – Conversational

Malay – Conversational

German – Conversational