Muhammad Salman

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Professional Summary

Fresh graduate with a solid foundation in software development and computer vision. Skilled in multiple programming languages and frameworks, with a focus on building scalable, efficient solutions. Eager to contribute to diverse projects and enhance development workflows while continuing to learn new technologies and tools for software delivery and deployment.

Technical Skills

Languages/Database: PHP, Python, Javascript, Java, MariaDB, Redis
Frameworks: Laravel, VueJS, FastAPI, PyTorch
Tools: Linux, Git/GitHub/GitLab, Bash and Python scripting, Vagrant, Docker

Projects

Deepfake Videos Detection | *PyTorch, Laravel, VueJS, FastAPI, MariaDB, Redis* [GitHub]
- Developed a deep learning classifier to detect deepfake videos achieving state-of-the-art results.
- Built and deployed a FastAPI-based model API, providing real-time video inference for up to 1,000 requests per day.
- Optimized video processing speed, reducing average processing time by 30% for faster results.
- Integrated AI-driven prediction endpoints with a Laravel-based web platform, streamlining access for 500+ users.

Black Ash Restaurant | *HTML, CSS, Bootstrap, MySQL, PHP, JS* [GitHub]
- Developed a dynamic web application, increasing site interactivity and engagement.
- Implemented database concepts, improving data retrieval times by 20% through optimized queries.

JKeylogger | *Java, JNativeHook, Intellij IDEA* [GitHub]
- Designed a keylogging tool to analyze user input, supporting analysis of 10,000+ keystrokes for research purposes.
- Gained experience integrating external libraries into Java applications for enhanced functionality.

Airline Reservation System | *OpenJDK-17, Intellij IDEA* [GitHub]
- Developed a terminal user interface (TUI) for customer registration, login, flight booking, and cancellation.
- Implemented a flight booking module and cancellation feature, allowing users to manage their bookings.
- Open-sourced the project on GitHub, gaining 15 forks and 33 stars, enabling collaboration and feedback from the developer community.

Experience

Cedar Technologies **January 2024 – August 2024**
Jr. Software Developer *On Site*
- Designed and developed a desktop application for employee monitoring using Electron and Python, improving workflow tracking by 35%.
- Built and deployed a web application integrated with the desktop monitoring tool, supporting 200+ concurrent users.
- Created API endpoints to integrate the desktop and web platforms, enabling seamless secure communication.
- Implemented token-based authentication shielding 12 critical API endpoints, mitigating potential breaches by 60%.
- Set up and configured GitHub Actions to automate CI/CD pipelines, reducing deployment time by 80%.
- Conducted code reviews, ensuring best practices were followed, resulting in a 15% improvement in overall code efficiency.

Tech Research Writing **December 2021 – February 2022**
Freelance Research Work *Remote*
- Researched and wrote several articles on emerging technology trends, with a particular focus on the decentralization movement and Web3 technology.

Education

GIFT University, Gujranwala **April 2021 – March 2025**
Bachelor of Science in Computer Science *CGPA: 3.85 / 4*
Coursework: AI/ML, Information Security, Parallel and Distributed Computing, Computer Networks, Operating Systems

Conference Presentation & Publications

C=Conference, J=Journal, P=Presentation S=In Submission

[C.1] M. Salman, et al. (2025). **AWARE-NET: Adaptive Weighted Average for Robust Ensemble Network in Deepfake Detection**. In *ICEPECC 2025*, pp. 526-533, IET Conference Proceedings, Volume 2025, Issue 3. Published on 19 March 2025, Hybrid Conference, Gujrat, Pakistan. DOI: 10.1049/icp.2025.1162. Available on IEEE Xplore: [Link]

[P.1] **AWARE-NET: Adaptive Weighted Average for Robust Ensemble Network in Deepfake Detection**. In *ICEPECC 2025*, Hybrid Conference, University of Gujrat, Gujrat, Pakistan. Presented on 19 March 2025.

[S.1] M Salman, et al. (2025). **Analyzing Frequency Domain Features and Machine Learning Approaches for Deepfake Detection**. Manuscript submitted for publication in *IEEE Access*.

[S.2] M Salman, et al. (2025). **Convolutional Neural Network and Transformer-Based Visual Deepfake Detection: A Comparative Analysis**. Manuscript submitted for publication in *IEEE Xplore*.