Hira Iftikhar

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Karachi, Pakistan

Objective

Motivated third-year Computer Science student with strong problem-solving skills and proficiency in C/C++, Java, and Python. Experienced in full-stack web development using the MERN stack and familiar with QA automation tools and practices to support efficient and reliable software delivery. Interested in AI and data science, with a desire to further explore their applications. Eager to contribute to impactful projects in a collaborative and growth-oriented environment.

Education

FAST - National University of Computer and Emerging Sciences   *August 2022 – Present*
BS in Computer Science, Karachi, Pakistan
CGPA: 3.22

Volunteering & Leadership

Character Building Society (CBS) – FAST-Karachi   *2023 – 2024*
Coordinator
Contributed to a student-led organization promoting social responsibility, ethical awareness, and community outreach.
Led initiatives for campus-wide donation drives, awareness sessions, and character-building workshops.
Awarded **Star Performer** for exemplary leadership and impact during tenure.

Teaching Assistant – Expository Writing   *Feb 2025 – Jun 2025*
Department: Software Engineering
Assisted students with technical writing, documentation standards, and project communication deliverables.
Conducted feedback sessions, marked assignments, and helped students improve report writing and clarity.
Coordinated with faculty to align writing instruction with software engineering course objectives.

Technical Skills

- **Languages:** C/C++, Python, JavaScript (ES6+), SQL, HTML/CSS
- **Frameworks and Libraries:** React, Next.js, Node.js, Express.js, Flutter, Bootstrap
- **Databases:** MongoDB, PostgresSQL, MySQL
- **Tools and Platforms:** Git, GitHub, Docker, WordPress
- **Courses Taught:** Artificial Intelligence, ML, DLP, Neural Networks, Software Development

Projects

- **Blood Bank Management System (BBMS)**   GitHub
  C++, Object-Oriented Programming (OOP) – A console-based system to manage blood donations and transfusions.
  - Developed C++ system for blood donation management with file persistence.
  - Implemented blood-type compatibility checks and inventory tracking.

- **Person Recognition using Gait Matching**   GitHub
  Python, OpenCV, PyTorch, Scikit-learn – Deep learning system for identifying individuals based on their gait.
  - Achieved 96.65% accuracy using ResNet-101 model.
  - Implemented Kurtosis-Controlled Entropy for feature selection.

- **Preloved Fashion Platform**   GitHub
  MERN Stack (MongoDB, Express, React, Node.js), JWT – An online marketplace to buy and sell second-hand clothing.
  - Built full-stack e-commerce platform with authentication.
  - Developed recommendation engine using collaborative filtering based on pricing, most selling, and order history.

- **Event Management System**   GitHub
  Flutter, Node.js, Express.js, MySQL – A multi-role event planning app for organizers, attendees, and admins.
  - Created cross-platform app with role-based access control.
  - Automated event workflows including venue allocation.

- **Skill Bridge – Career Empowerment Platform**   GitHub
  React.js, Node.js, NLP, Express.js – AI-powered platform to analyze skill gaps, build learning paths, and match jobs.
  - Implemented NLP-based Skill Gap Analyzer to compare user profiles with desired roles.
  - Integrated AI resume generator, personalized learning pathways, and WhatsApp microlearning.
  - Secured Runner-Up position at Developers Day 2025 hackathon.

Experience

M-Labs Summer Program 2024 *Jun 2024 – Aug 2024*
Intern – Game Development, Karachi, Pakistan 🌐 in
Developed and optimized core game mechanics in Unity, improving performance and gameplay.
Implemented interactive features to enhance user experience and engagement.
Gained hands-on experience in game development, collaborating on design, scripting, and debugging.

Bulbul Arabic Speaking Classes *June, 2025 - Present*
Intern – Web Development and AI Integration, Remote in
Developed full-stack features for the platform using modern web technologies.
Integrated AI assistant functionality after researching conversational AI and user interaction flows.
Identified and fixed bugs, conducted QA testing, and ensured cross-browser compatibility.
Collaborated closely with team members to align technology with business goals.
Built internal automation tools to streamline repetitive tasks and enhance team efficiency.
Quickly adapted to new tools and frameworks to meet evolving project needs.

Interns Pakistan *Aug 2023 – Sep 2023*
Frontend Web Developer – Internship, Karachi, Pakistan 🌐 in
Completed a 1-month internship focused on enhancing frontend and backend development skills through practical experience.
Built interactive web features and improved understanding of responsive design and coding best practices.
Collaborated on real-world projects, strengthening problem-solving and teamwork abilities.
Concluded the internship by creating a WordPress website on my favorite topic, *Tea*, utilizing themes, plugins, and customization tools to build a fully functional and visually appealing site.

Additional Information

Certifications
Coursera: Web Development
DevTown: Python Programming, Git & GitHub, Python & AI, Hotstar Clone (Web Dev)

Interests: Travelling | Reading | Badminton | Photography