Areesha Faisal

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Education

NATIONAL UNIVERSITY OF COMPUTER AND EMERGING SCIENCES　Chiniot-Faisalabad Campus
BS Software Engineering　2021 – In Progress
CGPA: 3.28 / 4.0

Experience

Teaching Assistant　NUCES, Chiniot-Faisalabad Campus

- Assisted faculty in labs and assignments across 5+ software engineering courses.
- Guided and evaluated 60+ students per semester in foundational computing and statistics.

Projects

Event Ease　JavaScript, Node.js, Express, React

- Spearheaded an online conferencing system for real-time event management, amplifying attendee engagement with interactive tools.
- Directed event scheduling, facilitated attendee interaction, and enhanced live sessions, improving overall user experience.
- Enabled seamless video conferencing for 2+ users post-paper publication, enhancing collaboration and discussion.
- Optimized review turnaround time by approximately 40% through the integration of automated assignment and smart scheduling modules.

Arabic Poem Dictionary　Java, MySQL

- Created a multi-layered Arabic dictionary using Design Patterns (Facade, Abstract Factory, Singleton), optimizing tokenization and Arabic stemming.
- Engineered a 3-layer architecture (BLL, DL, PL) to ensure high performance and scalability for large Arabic datasets.
- Developed 4 core modules (Books, Poems, Verses, Tokens) to improve the search and retrieval of Arabic terms.

Word Suggestion Tool　C++, Data Structures

- Built an efficient auto-complete system using a Trie data structure, achieving average lookup times under 5 milliseconds.
- Implemented prefix-based matching for a dictionary of over 10,000 words, utilizing dynamic memory allocation for scalability.

Certifications & Accomplishments

- Dean's List – Fall 2024 (SGPA: 3.72 / 4.0)

Areas of Interest

- ☑ Software Requirement Specification
- ☑ Frontend Developer
- ☑ Android Development
- ☑ Quality Assurance
- ☑ Software Testing
- ☑ Firebase

Professional Skills

- Languages: JavaScript, Java, HTML, CSS
- Frameworks: Node.js, Express, React, Bootstrap
- Tools: Git, JUnit, Selenium, SonarQube, Android Studio
- Databases: MySQL, Oracle, MongoDB

Extracurricular Participation

- President – FAST English Club (2023–2024)
- Head Marketing – FAST Silent Steps (2023–2024)