

PROFESSIONAL SUMMARY

I am a graduate software engineer with a strong foundation in programming languages and software development methodologies. Proficient in designing and implementing innovative solutions to complex problems, with a keen eye for detail and a passion for continuous learning.

WORK EXPERIENCE

FAST NUCES Teacher Assistant Jan 2025 – Jun 2025

Served as Teacher Assistant for Software Re-Engineering.

Web Development Intern Jun 2025 – Jul 2025

ENCRYPTIX Delhi India. Remote Internship

Completed a 4-week internship focused on hands-on web development projects using HTML, CSS, JavaScript, and the MERN stack. Contributed to both frontend and full-stack applications, implementing clean UI designs, dynamic functionality, and responsive layouts.

Freelance Web Developer (Fiverr & Upwork)

2021-2025

Designed and implemented solutions using MERN stack, C++, C#, Java, Python, SQL, and other technologies.

ACADEMIC HISTORY

FAST-NUCES Faisalabad | 2020-2025

Bachelor of Software Engineering

- Member of Organizing Committee at *Daira'22*
- Related Course:** Software Quality Engineering, Software Testing(Junit, Unit Testing, PyCharm, Selenium, Jira, Black Box Testing, White Box Testing, Automation Testing), Remote Sensing and GIS, Computer Network, Software Construction and Development, Software Design and Architecture, Software Project Management(SDLC), DevOps Engineering(Dockers, Kubernetes, CI/CD Pipelines).

TOOLS

Documentation and Design: Figma, Draw.io, Lucid Chart, Canva, Mermaid Chart, Plant UML. **SQE & SQA Testing:** Selenium, Jira, Junit, PyCharm, Eclipse, Unit testing, TestRail, SoapUI for API Testing, SDLC Methodologies(Waterfall, Agile, Iterative, Spiral), **Web Development & Coding:** Visual studio, VS Code, Jupyter Notebook/Lab, IDLE, GitLab, Eclipse, IntelliJ IDEA, others related.

SKILLS

Programming & Frameworks: HTML, CSS, JavaScript, React.js, Node.js, Express.js, Python, Django, Java, C/C++, MERN Stack, **Databases:** MySQL/PostgreSQL / Oracle, No SQL (MongoDB, others),

AI & Machine Learning: Machine Learning Model Fine-Tuning (FLAN-T5), Transfer Learning, Model Optimization.

Software Engineering & Design: Code Refactoring, Software Architecture Patterns (MVC, MVP, etc.), Design Patterns (Singleton, Facade, Observer, etc.), UML & Design Diagrams (Domain, Activity, Sequence, Component, System Architecture). **Concepts:** Data Structures & Algorithms (DSA), Object-Oriented Programming (OOP), Software Development Life Cycle (SDLC), Software Engineering Principles

PROJECTS

Cuisine Craft Web Based AI Recipe Generator | Final Year Project

- Cuisine Craft** is a Web Based AI Recipe Generator. Main Modules Recommendation system, Recipe Management, Nutrition Calculation, Health & Fitness. AI-driven platform that empowers individuals and health professionals to manage dietary needs effectively and efficiently. Real-time Recipe Adjustments, Ingredient Substitution Suggestions ,Comprehensive Meal Planning.
- Languages and Frameworks:** Python, Django, MySQL, React, Machine Learning Model Fine-Tuning (FLAN-T5), Model Optimization & Transfer Learning.

JAVA Multilingual Dictionary

- Java Desktop Application for translation of Arabic words into Urdu, English and Persian. Stemming of the words (roots of words).** **Languages and Frameworks:** MySQL, Eclipse, MVC, layered Architecture, RMI, Java Threading, Proxy, Client-Server Architecture, Multithreading, Segmentation, Lemmatization, Facade, Dependency Inversion, Abstract Factory. **Testing Tools:** Eclipse Junit Testing, Node testing, edge, path coverage.

Memory Match Challenge – Shell Scripting Game

- Designed a command-line memory game with random sequence generation, timer, ASCII visualization, score tracking, and Vs Computer Mode using Shell Scripting. Improved skills in functions, loops, and algorithmic problem-solving. **Languages and Frameworks:** Shell Scripting, Ubuntu.

C++, C#, C Language

- Tic Tac Toe, Candy Crush, Crick Buzz, Inventory Management, Shopping Store Management(MySQL, PL/SQL concepts, Triggers, cursors, and exception handling)