Rafay Adeel

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GitHub • Portfolio

Objective

Final-year CS student with Python scripting, AI, and web development experience, seeking a hands-on internship to apply skills in AI systems , Web development and secure software development.

Education

BS (Computer Science), FAST NUCES — GPA: 3.63

Projects

- **Chat App (Node.js, JavaScript)** – Built a real-time LAN chat app supporting multi-device messaging over Wi-Fi/LAN, with features like CORS and message logging. Demonstrates network programming and lightweight backend skills.
- **Nodemailer MVC App (Node.js, Express.js, Nodemailer, EJS)** –Structured using the MVC design pattern. This app provides RESTful API endpoints for sending emails, supports environment configuration, CORS, and static file serving—ideal for integrating email functionality into web apps.
- **Blog Summariser Web App (Next.js, Tailwind CSS, Shadcn UI, Supabase, MongoDB)** – A full-stack web app to scrape blog content, generate summaries, translate to Urdu, and store data in Supabase and MongoDB. Frontend built with Next.js and Tailwind CSS.
- **Quote Generator (Next.js, Tailwind CSS, Shadcn UI)** – A web app allowing users to view and share random quotes from a curated collection.
- **Growvy Redesign (HTML, CSS, JavaScript)** – Redesigned an existing 6-page website, improving layout and visual appeal using HTML, CSS, and JavaScript. Enhanced user experience through modern web design practices.
- **CForge Compiler (Flex, Bison, LLVM)** – Designed a custom C compiler featuring lexical and syntax analysis, and LLVM-based code generation, demonstrating deep understanding of compiler design and low-level system programming.
- **Trie Dictionary (C++)** – Implemented a prefix-based dictionary using Trie data structure supporting efficient add, delete, update, and search operations, highlighting algorithmic optimization and data structure design.
- **Airline Management System (C#, SQL)** – Created a Windows Forms app managing airline operations such as ticket reservation, flight scheduling, and maintenance tracking, involving database management and user interface design.
- **Transport Management System (C++)** – Developed an OOP-based platform allowing customers to book rides or transport goods with driver acceptance workflow, focusing on object-oriented design and system logic.

Skills & Interests

Languages/Tools: Python, C, C++, C#, SQL, JavaScript, HTML/CSS, Oracle, Visual Studio, R, MS Office
Interests: Software Development, DevOps, Data Analysis, Project Management

Teaching Assistantships

- PF • OOP • Linear Algebra • Software Design • Database Systems

Achievements & Certifications

- IBM: Python for AI & Data Science
- Google: Cybersecurity, Project Management, Analytics, IT Support
- Dean's List — Fall '22 to Fall '24 • Silver Medal — Fall '22

Volunteering & Leadership

- TEDxFAST Volunteer
- Management – Daira & Job Fair '23, '24, '25
- Event Lead — Daira 2025