M. Saif Ur Rehman

Software Engineer | FAST'22

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Professional Experience

Senior Software Engineer (Team Lead)

Tron AI, Lahore | *October 2024 - Present*

- Leading development teams in building cutting-edge AI-powered solutions
- Architecting scalable software systems and mentoring junior developers
- Driving technical decision-making and establishing best practices across projects

Software Engineer

Rolustech, Lahore | *July 2022 - September 2024*

- Developed and deployed dynamic web applications using **Python Django** and **REST APIs**, ensuring high performance and scalability
- Spearheaded backend development of custom solutions, collaborating with cross-functional teams to gather requirements and design robust architecture
- Implemented advanced debugging techniques and conducted thorough code reviews to maintain high-quality, error-free codebases
- Integrated APIs with third-party services and optimized application performance for enhanced user experiences
- Collaborated effectively with diverse teams of engineers, product managers, and stakeholders to deliver applications on schedule

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Education

Bachelor of Computer Science

FAST NUCES, Lahore | *August 2018 - June 2022*

Key Coursework: Programming Fundamentals, Design and Analysis of Algorithms, Databases, Object Oriented Programming, Data Structures

Key Projects

Contact Lens RAG Application

AI-Powered Research Chatbot System | FastAPI, Next.js

- Developed an **intelligent chatbot system** with GPT-like capabilities for contact lens research and product information
- Built comprehensive **admin panel** for training AI models using PDFs, Excel sheets, and research papers
- Implemented **automated web scraping system** that extracts content from 40+ websites, converts to PDF format, and trains RAG models
- Created user-friendly frontend interface for seamless interaction with the AI-powered knowledge base
- **Live Application:** therightcontact.com

PRD Generator Platform

Automated Product Requirements Documentation | Django, Next.js

- Engineered an **AI-driven PRD generation system** that creates detailed product requirement documents through guided questionnaires
- Integrated with **JIRA and Figma APIs** for automatic ticket creation and design generation for development teams
- Leveraged **OpenAI models** for intelligent content generation, scope analysis, and requirement structuring
- Streamlined product management workflow, reducing PRD creation time by 80%

Real Estate Intelligence Platform

Property Analysis & Design Solution | Next.js, Django

- Built **comprehensive property data scraping system** extracting information from Zillow across the US market
- Developed **AI-powered scope of work generator** with intelligent quoting based on property values and damage assessment
- Integrated **image recognition technology** and GPT models for room design generation and floor plan creation

- Enabled real estate agents and end users to generate accurate repair quotes and visualize property improvements

LinkedIn Ad Analytics Dashboard

Social Media Intelligence Platform

- Created **automated ad scraping system** for comprehensive company advertising analysis across LinkedIn
- Built **detailed analytics engine** providing insights on ad origins, performance metrics, and competitive intelligence
- Implemented **Stripe payment integration** for premium analytics features and detailed reporting
- Delivered actionable business intelligence through advanced data visualization and trend analysis

Crypto Trading Analysis Chrome Extension

AI-Powered Trading Intelligence Tool | HTML, CSS, JavaScript

- Published **Chrome extension** on Web Store providing real-time AI-driven chart analysis for traders
- Integrated **OpenAI technology** for advanced pattern recognition and trading recommendations
- Implemented **Firebase authentication** with Google login and tiered access system (10 free insights + premium)
- Supports multiple trading platforms with seamless overlay of technical indicators and entry/exit point identification
- **Live Extension:** <u>Chrome Web Store Link</u>

Technical Skills

Programming & Frameworks

HTML, CSS, JavaScript, Python Django, Flask

Databases

MySQL, PostgreSQL, MongoDB, SQL Server

APIs & Backend

REST APIs, FastAPI, LangChain

Cloud & DevOps

AWS (EC2, S3, RDS), Docker

Development Tools

Visual Studio Code, Cursor, Postman, Git, Jupyter Notebook, Google Colab, PyCharm, Anaconda, GitHub, GitLab

Project Management & Collaboration

JIRA, Redmine, Zapier

Operating Systems

Ubuntu, macOS, Windows

Certifications

- **Python For Programmers Course** - Codecademy
- **Django Framework Course** - Great Learning
- **Learn JavaScript Course** - Codecademy

Core Competencies

- **Full-Stack Development** with expertise in Python-based web frameworks
- **API Design & Integration** for seamless third-party service connectivity
- **Database Design & Optimization** across multiple database systems
- **Team Leadership & Mentoring** with proven track record in collaborative environments
- **Performance Optimization** and scalable application architecture
- **AI/ML Implementation** with hands-on experience in data processing and analysis