

# Taimoor Shafique

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## EDUCATION

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**COMSATS University Islamabad (CUI), Islamabad Campus**

**Feb 2021 – 2025**

*Bachelor of Science in Artificial Intelligence (BS-AI)*

Relevant Coursework:

- Mathematics: Linear Algebra, Calculus, Statistics, Differential Equations
- Core Topics: Machine Learning, Neural Networks, Natural Language Processing, Computer Vision, Deep Learning
- Core Algorithms: Data Structures, Object Oriented Programming

## WORK EXPERIENCE

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**Rust Protocol Engineer**

**Nov 2022 – Aug 2024**

*Freelance development, Upwork*

- Worked on applications building with Foundry, ethers-rs, solana-sdk in rust utilizing asynchronous libraries and implementations of the Actix distributed systems.
- Worked in Freelance on multiple EVM and Solana projects.

**Blockchain Developer** [Link](#)

**Jul 2024 – Dec 2024**

*Monumental AS, Dubai(Remote) : Rust, AWS, Redis*

- Built the Solana smart contracts for the chatting Application using Zero Knowledge proofs utilizing light-protocol and used Anchor CPIs for minimal costing account Initializations
- Worked on Rust Integrations, AWS instances and lambda functions
- Collaborated with flutter developers to develop scalable solutions for group chatting Application.

**Backend Systems Engineer** [Link](#)

*OrbitFlare (Remote)* **April 2025 – Present**

*: Rust, Agave Validator, GRPC, Redis, Postgresql*

- Built high performance shreds client, Solana Indexer for high computation calls (getTokenLargestAccounts, getProgramAccounts)
- Built GRPC Proxy Router for Grpc Requests Routing
- Worked on Rust Integrations, AWS instances and lambda functions and bare metal servers for Distributed Ingesters and Interface Deployments
- Collaborated with front-end developers for websocket integrations.

## PROJECTS

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**PolicyAssist Hub (PAH) - Final Year Project**

**Apr 2024 – Nov 2024**

*Technologies: Next.js, FastAPI, MongoDB, Pinecone*

- Developed a platform to modernize policy communication systems with AI chatbots for document-based queries.
- Integrated Retrieval-Augmented Generation (RAG) using Large Language Models (LLMs) to enhance communication accuracy.
- Implemented a secure document management system and a feedback module for user complaints and suggestions.
- Deployed the application on Hetzner Cloud with CI/CD pipelines for scalability and reliability.

**Real-Time Face Recognition**

**Dec 2023**

Technologies: *OpenCV, Python*

- Built a real-time face recognition system using LBPHFaceRecognizer to identify individuals from live video streams.
- Curated a diverse dataset with varied expressions and lighting to train and optimize the recognition model.
- Integrated the model with webcam feeds to display real-time identification and labeling.

Solana Toolkit [Link](#)

Nov 2023 – Jul 2024

Technologies: *Next.js, Rust, AWS*

- Created a Solana bundler for bundling transactions on Raydium, Pumpfun and Meteora
- Designed a responsive frontend using Next.js and Tailwind CSS for seamless user interactions.
- Developed backend services with Rust, integrating Jito, Pinata and various SDKs for smooth interations.
- Established CI/CD pipelines with GitHub Actions for efficient deployment on Vercel and Latitude.

Solana Telegram Bot

Feb 2024 - Aug 2024

Technologies: *Rust, Nextjs, DynamoDB*

- Built a high-performance trading bot using Rust with async runtime for concurrent operations
- Implemented custom GRPC clients for real-time blockchain data processing
- Designed efficient data structures for optimal memory usage and performance
- Utilized various Rust crates including serde for serialization, tokio for async operations

Soda Exchange - Trading Terminal [Link](#)

Jan 2025 – Present

Technologies: *Nextjs, Rust, Websocket Routers*

- Engineered high-performance backend services using Actix-web and PostgreSQL
- Built Instruction Decoders and Pricing Calculators for each DEX
- Implemented WebSocket servers using tokio for real-time data streaming
- Developed custom middleware for request validation and authentication
- Created automated deployment workflows using github workflows to baremetal servers

## TECHNICAL SKILLS

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Languages:	Rust, Python, TypeScript
Rust Ecosystem:	Actix-web, tokio, async-std, diesel, serde, clap, rayon, crossbeam
Databases:	PostgreSQL, Redis, DynamoDB
Cloud & DevOps:	AWS (EC2, Lambda, ECS), Docker, GitHub Actions, Terraform
Blockchain:	Solana (Anchor), Zero Knowledge Proofs, Smart Contracts
Testing:	cargo test, mockall, criterion for benchmarking