

# AYUSH SHAH

Full-Stack Developer | Web3 Explorer

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## Summary

Motivated Computer Science student focused on full-stack development and systems programming. Experienced with React, TypeScript, Rust, and Go. Currently exploring Robotics (ROS 2) and Web3 (Solana) development.

## Education

### Pursuing B.Tech in Computer Science and Engineering

Keshav Memorial College of Engineering, Hyderabad, Telangana

Expected Graduation: 2028

## Experience

### Robotics Intern

2025 – Present

Robotics Paradigm, Hyderabad

- Developing and simulating control algorithms for the **OpenManipulator-X** robotic arm utilizing **ROS 2** and **Gazebo**.
- Optimizing path planning and kinematics modules to enhance movement accuracy and efficiency in simulated environments.
- Collaborating on the integration of sensor data to improve real-time object detection and manipulation capabilities.

## Technical Skills

Languages	TypeScript, JavaScript, Python, Java, C/C++, Rust, Go, Lua, Bash
Frameworks	React (Next.js), Express, Actix Web, Rocket, ROS 2
Databases & Tools	PostgreSQL, Redis, Docker, Git, Kafka, Prisma, Gazebo, Linux (WSL)
Cloud / DevOps	AWS (EC2, S3), Cloudflare Workers, Nginx

## Selected Projects

### Raven | Real-Time Chat Application

🐙 GitHub   🌐 Live

Tech Stack: Next.js, WebSockets, REST API, PostgreSQL, Prisma, Turborepo

- Engineered a full-stack, real-time chat application combining WebSockets for instant messaging and REST APIs for reliability.
- Designed a scalable architecture capable of supporting numerous concurrent users with efficient, real-time updates.

### TempMail | Custom SMTP Disposable Email

🐙 GitHub   🌐 Live

Tech Stack: Rust (SMTP), Bun, Express, PostgreSQL, React, TypeScript

- Engineered a real-time disposable email platform featuring a self-built, high-performance SMTP server written in Rust.
- Integrated a Bun backend to process auto-expiring emails in real-time, utilizing PostgreSQL for efficient data persistence.



### rust-smtp | High-Performance Mail Server

🐙 GitHub

*Tech Stack: Rust, Tokio, PostgreSQL, Docker, SMTP Protocol*

- Built a highly efficient, asynchronous SMTP server in Rust using Tokio to handle high-volume email traffic.
- Implemented raw SMTP protocol handling and MIME parsing to power the TempMail service.



## shrty | High-Performance Link Shortener

 [GitHub](#)  [Live](#)

*Tech Stack: Go, PostgreSQL, React, Vite, TailwindCSS*

- Constructed a low-latency URL shortening microservice using Go, ensuring rapid redirect speeds.
- Secured the API against bot abuse by implementing Cloudflare Turnstile validation.



## QuillWeave | Serverless Blogging Platform

 [GitHub](#)  [Live](#)

*Tech Stack: React, Tailwind, Cloudflare Workers (Hono), PostgreSQL*

- Developed a Medium-style blogging platform using a serverless backend architecture with Cloudflare Workers.

## TS-Chess | Multiplayer & AI Web Chess Game

 [GitHub](#)  [Live](#)

*Tech Stack: React, TypeScript, WebSockets, Chess.js, Stockfish.js*

- Built a web-based chess app featuring local play, online multiplayer via WebSockets, and Stockfish AI integration.



## Pwmgr | Client-Side Encrypted Password Manager

 [GitHub](#)

*Tech Stack: React, Tailwind CSS, Chrome Extension API, LocalStorage*

- Created a security-focused, Bitwarden-like password manager as a Chrome extension with client-side encryption.

## Telegram Bots | Automation & Utility Bots

 [GitHub](#)  [Live](#)

*Tech Stack: python-telegram-bot, Telethon*

- Developed multiple Telegram bots for user session management and game automation.