

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.