# Shivank Anchal

## Contact Information

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## Education

**National Institute of Technology, Kurukshetra**
*BTech, GPA: 7.8*                                   *Jun 2018 - Jun 2022*
**Colonel's Central Academy, Gurugram**
*XII Class: CBSE, 88.2%*                                              *2017*
**Lt. Atul Katarya Memorial School, Gurugram**
*X Class: ICSE, 92.6%*                                               *2015*

## Summary

Experienced Rust developer specializing in asynchronous and concurrent programming. Skilled in backend development, API design, and distributed systems, with hands-on experience in Rust, Ntex, and Tokio. Passionate about blockchain technologies and decentralized systems. Actively mentoring developers in Rust through the **Xoriors Rust Course**.

## Skills

**Languages and Frameworks:** Rust, Ntex, Actix, Rayon, Tokio, Python, Java, Serde
**Technologies:** Distributed systems, REST APIs, OpenAPI, TCP / UDP communication, Docker, CI / CD
**Platforms and Tools:** Linux, Bash, Git, GitHub, DSA

## Experience

**Backend Developer** — Deloitte                              *Sep 2022 - Present*

- **Project Merck (Feb 2025 - Present):** Developed a wrapper for **Immuta APIs** to ensure robust data governance across platforms like **Databricks**.

- **Kroger (Sept 2022 - Feb 2025):** Built Rust-based REST APIs using Actix, Ntex, Tokio, Google Spanner. Implemented **unit and integration testing**, **profiling with cargo bench**, and managed **feature flags**.

- Collaborated in agile workflows, managing production issues, debugging, and ensuring code quality through stand-ups and retrospectives.

**Project Lead Developer** — CaddMan3D                       *Oct 2021 - Sep 2022*

- Led IoT projects connecting microcontrollers to mobile apps via **REST APIs** and **Firebase**, enabling automation systems. https://youtu.be/ZiCrAMoRbQQ

- Automated browser tasks using **Selenium** for operational efficiency. https://youtu.be/tXApL7ymE8s

## Open Source Contributions

- Developed a **uTP (Micro Transport Protocol)** library in Rust using **Tokio**, supporting stream-based communication over UDP. https://github.com/anchalshivank/rfs-utp

- Contributed to the **Replica** distributed systems project through research, architectural review, and documentation. https://github.com/replica-io

- Participated in the **Golem Cloud** Bounty-to-Hire initiative, with contributions focused on platform stability and modularity. https://github.com/golemcloud/golem/pull/1033

## Peer-to-Peer Networking Experience

- Contributing to the **Kitsune2** layer of **Holochain**, a peer-to-peer networking stack designed around an agent-centric distributed hash table and sharded gossip protocols. https://github.com/holochain/holochain

- Proficient in event-driven networking concepts, including asynchronous communication, NAT traversal, and routing over QUIC and UDP.

- Strong understanding of decentralized architectures, gossip algorithms (recent, historical, sharded), and agent-centric identity models.