

# SHAURYA SINGH

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## SENIOR ENGINEER, RUST

*Senior Engineer ❖ Rust, Distributed Systems, Kubernetes, Observability & Scalable Backends*

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- ❖ Senior Backend Engineer with strong experience in designing, developing, and deploying high-performance distributed systems using Rust. Passionate about scalability, observability, performance optimization, and mentoring teams while delivering reliable, production-ready software.
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## Skills Summary

- ❖ Microservices Architecture & Distributed Systems
- ❖ Backend Development with Rust (Actix-web)
- ❖ REST APIs, WebSockets & Webhooks
- ❖ Observability, Monitoring & Logging
- ❖ Mentoring & Technical Leadership
- ❖ Agile & Cross-Functional Collaboration
- ❖ CI/CD Pipelines & DevOps Practices
- ❖ Scalability, Performance & Latency Optimization
- ❖ Test-Driven Development (TDD) & Integration Testing

## Technical Skills

<u>Skill Area</u>	<u>Tools / Technologies</u>
Programming Languages	Rust, C/C++
Backend Frameworks	Actix-web, Diesel ORM
Databases	PostgreSQL, MongoDB, Redis
Messaging & Streaming	Kafka
DevOps & Cloud	Docker, Kubernetes
API & Integration	REST APIs, WebSockets, Webhooks
Version Control	Git, Bitbucket
Collaboration & Project Tools	Figma, Confluence, JIRA

Desktop Apps	Tauri
Monitoring & Observability	Datadog, AWS CloudWatch

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## Professional Experience

### SENIOR ENGINEER — RAPID INNOVATION, NOIDA

March 2023 – Present

Product: PHYND (Web3 Gaming Marketplace & Smart TV Platform)

Serving as a core backend engineer responsible for designing and scaling a cloud-native Web3 platform supporting real-time NFT trading and gaming experiences.

- Collaborated with a 9-member cross-functional team to design and build the PHYND marketplace from scratch.
  - Architected and deployed 7+ Rust-based microservices using Actix-web, focusing on scalability, maintainability, and performance.
  - Integrated AWS CloudWatch and Datadog for centralized logging, monitoring, alerting, and APM.
  - Developed Admin Service for platform management and Quest Service to drive user engagement through rewards.
  - Built cron services to ingest NFT collections from Reservoir API.
  - Implemented WebSocket and webhook-based real-time systems, reducing event latency by 40%.
  - Applied Test-Driven Development (TDD) and wrote extensive integration tests achieving 80% coverage.
  - Mentored Junior engineers in Rust best practices, microservices design, and observability tooling.
  - Contributed to platform stability and performance that supported \$10M oversubscribed seed funding and a strategic partnership with Samsung.
- ❖ **Tech Stack:** Rust, Actix-web, Docker, Kubernetes, AWS CloudWatch, Datadog, Kafka, PostgreSQL, Redis

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### ASSOCIATE SOFTWARE DEVELOPER — RAPID INNOVATION, NOIDA

April 2022 – March 2023

- Led backend and desktop application development for RapidShot, an employee monitoring tool.
  - Built backend services using Rust (Actix-web) and a cross-platform desktop UI using Tauri.
  - Improved system efficiency and data synchronization by 25% through optimized backend workflows.
- ❖ **Tech Stack:** Rust, Actix-web, Tauri, MongoDB, HTML, CSS, JavaScript

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## PROJECT DETAILS

### PROJECT#1

PHYND – FREE SMART TV GAMING PLATFORM

CLIENT: SWANSTON | MARCH 2023 – PRESENT

WEBSITE: [PHYND.CO](https://phynd.co)

#### RESPONSIBILITIES/ACHIEVEMENTS –

- Followed Test-Driven Development (TDD) and achieved 80% test coverage.
- Subscription-free gaming platform with 7+ Rust microservices built using Kubernetes.
- Integrated third-party APIs (SimpleHash, Reservoir) for NFT and asset data.
- Implemented WebSockets and webhooks for real-time activity tracking and notifications.
- Implemented monitoring, alerting, and performance tracking using Datadog and CloudWatch
- Contributed to platform readiness that enabled [\\$10M](#) oversubscribed seed funding and partnership with Samsung.
- Ensured scalability and reliability for enterprise-grade partnerships.

### PROJECT#2

RapidShot – Employee Monitoring Desktop Application

Rapid Innovation | Aug 2022 – Mar 2023

#### Responsibilities/Achievements –

- Developed a cross-platform employee productivity and monitoring tool.
- Built high-performance backend services using Rust (Actix-web) to collect and process system activity data.
- Designed and implemented a desktop UI using Tauri, ensuring seamless communication with backend services.
- Optimized data synchronization and processing pipelines, improving system efficiency by 25%.
- Implemented secure data storage and efficient querying using MongoDB.
- Collaborated closely with product and design teams to deliver features within tight timelines.

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## Educational Qualifications

### • BTech – Electrical Engineering

Shri Ramswaroop Memorial College of Engineering & Management

2018 – 2022 | Graduated with Distinction

### • High School

Bal Vidya Mandir Senior Secondary School

2018 | Passed with Distinction

## Publications

## Languages

- English – Professional Proficiency
  - Hindi – Native Proficiency
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I hereby declare that the above information is true to the best of my knowledge.

Place: Lucknow

(Shaurya Singh)