

## Gaurav Tyagi (Rust Developer)

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UPTU, B.Tech (2009-2013)  
Computer Science and Technology

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## Summary

Backend Developer with 9+ years of experience in **Rust, Python, Django, Actix-Web, Distributed System and PostgreSQL**. Proven track record of optimizing asynchronous systems and leading high-impact projects.

- Skilled in **Distributed System Design, high-performance** development and **resilient** backend architecture.
- Proven track record in leading complex **DB migrations, optimizing performance, and contributing to open-source** projects like Askama and Helix.
- Passionate about solving deep technical challenges and delivering robust, production-grade software.

## Open-Source Contributions

- Fixed build hangs in Askama (Rust) due to unintended template recursion, enhancing stability for Jinja-inspired rendering.
- Added test case for append on write handle in Left-right (Rust).
- Added test case for wait function in Left-right (Rust), strengthening high-concurrency data structure robustness.
- Fixed typos in Left-right (Rust) README, improving documentation clarity.
- Added global error/warning count in Helix (Rust) status line, enhancing editor usability.
- Implemented rename command in Helix (Rust), streamlining user workflows.
- Added update in Helix (Rust) for modified files.

## Technical Skill's

- *Languages & Frameworks:* Rust (Actix-web, Tonic, Serde, Tokio, Tracing, Sqlx, Sea-ORM), Python (Django), JavaScript, Go, Java
- *Databases & Messaging:* PostgreSQL, MySQL, Redis, Apache Pulsar
- *Tools & DevOps:* Docker, CI/CD (GitHub Actions, Git Hooks), Grafana, Loki
- *Other:* gRPC, REST APIs, GCP Task Queue, API, GraphQL, AWS

## Professional Experience

### 1. Appknox — Senior Rust Developer (Remote) April 2023

- Designed and launched SBOM, a microservice for automated software bill of materials analysis, detecting security vulnerabilities and legal risks in client application code.
- Built scalable APIs using Rust, Tokio, and gRPC (Tonic), integrated with PostgreSQL via Sea-ORM and sqlx, reducing vulnerability scan times by 30%.

- Developed asynchronous Rust parsers for APK, POM, Flutter, and React Native apps to perform security checks on dependency versions and known vulnerabilities.
  - Implemented tracing for distributed logging, improving debugging efficiency across services.
  - Collaborated on CI/CD pipelines with GitHub Actions, ensuring zero-downtime deployments.
2. [deel. \(Lifepal Technologies\) — Senior Software Developer \(Remote\) June 2022 – Mar 2023](#)
    - Developed a lead management system in a microservice architecture using Rust and gRPC, handling 10,000+ daily leads with real-time state transitions for TSO teams.
    - Implemented backend job processing using Rust and RabbitMQ for reliable asynchronous task execution.
    - Led migration from SQLX to Sea-ORM, reducing database query latency by 25% and simplifying ORM interactions.
    - Designed WhatsApp API integration to parse chats and auto-generate leads, increasing lead ingestion by 15%.
    - Restructured PostgreSQL based constant management using LISTEN/NOTIFY, enhancing configuration reliability.
    - Established CI/CD standards with cargo fmt/clippy, improving code quality across 5+ Rust services.
  3. [Google ODC at GlobalLogic — Full-Stack Developer Nov 2017 – April 2022](#)
    - Spearheaded migration of Blogger.com's UI and backend to modern JavaScript and internal Java frameworks, serving millions of monthly users with 99.9% uptime.
    - Built Tam on Tap, a distributed shift scheduler with Google Hangouts bot integration, reducing task assignment delays by 40% for support teams.
    - Wrote extensive unit/UI tests and conducted 100+ code reviews, ensuring robust releases.
    - Developed an internal Chrome extension, streamlining team workflows for 500+ users.
    - Awarded Individual Excellence Award (2018-2019) for multi-project impact across Rust, Go, and JavaScript stacks.
  4. [Hindustan Times — Full-Stack Developer Jan 2017 – Oct 2017](#)
    - Enhanced HTCampus, a college search platform, is scaling to 30,000+ listings and online applications, driving 20% revenue growth via lead generation.
  5. [TriHedron — Full-Stack Developer Jun 2015 – Dec 2016](#)
    - Built a Learning Management System (LMS) with Django and MySQL, supporting course uploads and growth tracking for 1,000+ users.
    - Developed responsive frontends using jQuery, Bootstrap, and Materialize, improving user engagement by 25%.
  6. [NexThoughts — Full-Stack Developer Feb 2014 – Jun 2015](#)
    - Delivered an event management web app using Groovy/Grails and jQuery, handling 500+ events with real-time updates.