



Mayank Gupta

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Senior Software Engineer with 9+ years of experience designing and scaling Go-based distributed systems. Specialized in low-latency microservices, advanced concurrency patterns, and deep-dive debugging of complex distributed bottlenecks. Leverages advanced AI tools including Claude to accelerate R&D, optimize code generation, and rapidly prototype scalable system architectures. Proven ability to optimize system efficiency, reduce infrastructure overhead, and scale APIs to handle high-throughput traffic.

Skills

- Programming Languages: Go, Elixir, Python, Java, Clojure, Javascript (in descending order of experience)
- Databases: PostgreSQL, MySQL, MongoDB, Redis
- Frontend Development: ReactJS with JS/TS.
- MOMs: Apache Kafka, RabbitMQ
- DevOps Tools: Kubernetes, Docker
- Distributed Systems
- Microservices Architecture
- API Design and Development
- Web Application Development

Work history

● Senior Software Engineer

Josh Software, Bangalore, India | April 2023 - Current

Gojek | Consultant – Merchant Growth | **Mar 2025 – Present**

- **Learned Elixir from scratch** to design and deliver a complex Free Trial flow backend API within 3 weeks.
- **Engineered the complex multi-state logic** for the Free Trial engine to support dynamic merchant states.
- **Partnered daily with mobile engineers** to define API payloads and guarantee an effortless frontend integration.
- **Developed reporting backend APIs** for diverse merchant promotion flows on the GoBiz mobile app.
- **Designed the initial technical flow** and architected backend APIs for a greenfield SKU promotions platform.
- **Engineered robust background workers** in Go/Elixir to asynchronously process high-volume merchant promotions.

HDFC Bank | Consultant - Mobile Banking | **Apr 2023 – Mar 2025**

- **Collaborated on re-architecting the core authentication system** during the platform rewrite, transitioning the legacy mobile login flow into a modern, secure, and modular architecture.
- **Designed and built** secure authentication and profile APIs using Go.
- **Maintained codebases** for multiple microservices by continual refactoring while ensuring the unit test coverage never dropped below 90%.
- **Co-developed a secure, two-step QR-code and mobile token authentication platform called Kavach** to mitigate phishing risks, protecting high-volume digital banking transactions against unauthorized access.

● Software Engineer

Swymcorp, Bangalore, India (Remote) | January 2022 - January 2023

- **Designed and deployed robust Clojure-based Web APIs** for internal microservices and external public consumers, ensuring secure and predictable data delivery.
- **Partnered with engineering squads to diagnose performance bottlenecks**, implementing optimizations that enhanced system stability under peak traffic loads.
- **Spearheaded technical research initiatives on emerging tools and architectures**, translating complex findings into actionable insights for leadership.
- **Produced clear system architecture diagrams and API schemas**, improving engineering velocity and reducing documentation gaps across teams.
- **Mentored engineering interns** on clean code paradigms and modern SDLC methodologies, accelerating their code-review approval velocity and successfully converting them into full-time roles.

● Senior Software Engineer

Squadcast, Bangalore, India (Remote) | August 2020 - November 2021

- **Architected and led the development** of a highly scalable microservices ecosystem, significantly boosting overall system performance and operational reliability.
- **Accelerated team velocity and engineering growth** by mentoring junior developers and establishing standardized, modern software design best practices.
- **Bootstrapped the initial analytics dashboard iteration**, delivering critical real-time incident metrics to improve stakeholder visibility and response times.
- **Championed high code quality standards** by spearheading rigorous code reviews, ensuring codebase maintainability, and reducing post-release bugs.

● Product Engineer

Routematic, Bangalore, IN | May 2019 - August 2020

- **Refactored and re-architected** a legacy vehicle tracking platform using **Go**, improving system scalability and availability to handle higher concurrent traffic.
- **Designed and deployed a developer integration system**, accelerating the onboarding pipeline for third-party providers.
- **Optimized the real-time tracking experience** for customers, resulting in lower latency updates and cleaner map rendering.
- **Ensured high system reliability** across dozens of microservices by debugging complex production issues during active on-call rotations.
- **Authored clean, maintainable, and highly performant scripts and services** using a diverse technology stack (**Go, Java, PHP, Python**).

● Full Stack Developer

Mate Labs, Bangalore, IN | July 2018 - May 2019

- **Engineered high-performance Python/Flask backend APIs** to enable seamless, low-latency communication with the core machine learning platform.
- **Collaborated via pair programming** with cross-functional engineers to accelerate API integrations and isolate complex production bugs.
- **Mentored junior developers and interns** on software engineering best practices, Agile workflows, and Test-Driven Development (TDD).
- **Architected and deployed automated CI/CD pipelines** using Jenkins on AWS, streamlining deployment frequency and reducing manual release overhead.
- **Designed and established the core API testing framework** from scratch, raising test coverage standards across the engineering department.

● Software Engineer

Testvagrant Technologies, Bangalore, IN | January 2017 - July 2018

- **Consulted with cross-functional client teams** to diagnose testing bottlenecks, accelerating development cycles and shifting quality assurance left.

- **Co-developed the Optimus mobile automation framework**, streamlining test authoring for developers and QA engineers to improve overall test coverage.
- **Architected a scalable test automation suite** using Java, Appium, and Rest Assured for Gojek (among other clients), validating critical functional and REST API workflows.

Education

- Bachelor of Science in Electrical Engineering

ITER, Bhubaneswar, IN January 2016

Core Competencies

- **Technical Mastery:** Well-versed in concurrent programming, OOP, and functional paradigms, with deep knowledge of data structures and algorithmic optimization.
- **Polyglot Engineering:** Adaptable across diverse web frameworks including Django, Flask, and React for building full-stack applications and dynamic UIs.
- **Cloud-Native & Architecture:** Expert in microservices architecture, system design, and scalable cloud-native development.
- **R&D & Team Synergy:** Driven by technical curiosity, acting as a collaborative catalyst for cross-functional engineering teams.