

Ayush Anand

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EDUCATION

National Institute of Technology

Durgapur, India

Bachelor of Technology in Computer Science and Engineering — GPA: 9.46/10

- *Courses: Data Structure and Algorithms, Operating Systems, Database Management System, Computer Networks*
- Organisations: Vice Chairperson @ Indian Society for Technical Education (ISTE) Students' Chapter

EXPERIENCE

Software Engineer

Gurugram, India

Zomato Limited

Dec 2024 - Present

- Built an end-to-end automated outbound calling platform that enabled sales/marketing to target churned merchants via a self-serve workflow; integrated telecom APIs with an AI voice bot to conduct feedback calls at 300 calls/min, transcribed and summarized conversations, and structured insights into actionable buckets—driving 60% higher merchant engagement and 10
- Designed and implemented a high-volume vendor ledger and payout system to accrue invoices, reconcile against debit/credit notes, and enable daily finance approvals; processed 10K+ vendor disbursements via SFTP bank integrations with event-driven workflows (Go, Kafka, DynamoDB, Redis), eliminating 20 hours/week of manual reconciliation and reducing payout errors.
- Built a scalable vendor invoice ingestion and approval system that digitized invoices from existing workflows using in-house LLM services, validated extracted data against POs with rule-based checks, routed conflicts for human approval/rejection, and auto-posted approved invoices into the ledger—reducing processing costs 10x and cutting turnaround time by 50%.
- Increased completion of critical SalesOps tasks by 35% by shipping a real-time push notification platform (Go + Kafka); designed idempotent consumers, retry/backoff, and rules-based routing so the right teams acted on the right events fast.
- Strengthened reliability and security across a microservices stack by optimizing high-latency APIs (profiling + otel metrics) and remediating critical vulnerabilities in old systems;

Software Engineer

Remote, UK

DB News

Nov 2023 - May 2024

- Designed and built a high-performance news streaming platform that ingested critical market events and broadcasted filtered, real-time updates to subscribed users under 300ms using a WebSocket-as-a-Service and Pub/Sub architecture—driving a 20% increase in subscriptions.
- Optimized Postgres database operations to achieve a remarkable 3ms latency for reads/writes through indexing and partitioning techniques, optimizing overall system responsiveness.
- Created robust user session management using Redis, enabling seamless authentication and authorization processes while managing over 3,000 daily write operations and 15,000 daily read operations on the database.

Software Engineer Intern

Mumbai, India

JP Morgan Chase & Co

May 2024 - July 2024

- Achieved a 70% reduction in time-to-recovery from failed Risk and PnL jobs by developing a Flask-based API utility with thread pooling, local caching, and RQL for JP Morgan's in-house trading platform.
- Accelerated system performance and data retrieval by utilizing an in-house distributed object store with indexing, resulting in a 100% increase in meeting End-of-Day SLAs.
- Strengthened overall system efficiency and reliability by implementing load balancing and optimized data processing frameworks to deliver high-impact business solutions.

Software Engineer Intern

Remote

Google Summer of Code

May 2022 - Sept 2022

- Architected and optimized a Python package to improve performance and scalability for marine researchers, reducing data processing time by over 70%. github.com/iobis/pyobis.
- Refactored codebase to reduce size by over 50%, improving efficiency and enabling widespread use by researchers at the University of South Florida.
- Implemented 5+ new features, resolved 27+ open issues, and boosted performance by over 75% within 4 weeks.

SKILLS

Programming Languages

Golang, Python, C++, C, TypeScript, JavaScript, Kuma distributed mesh, Postgres

Libraries/Tools

MySQL, gRPC, Redis, Git, React, Node.js, CI/CD, Apache Kafka, AWS, Docker, REST API

PROJECTS

crazyhttp - An modern async HTTP/3 (HTTP over QUIC) Server Library - *GitHub*

Technologies used: Golang, QUIC, BoringSSL, IP, Networks, Linux

1. Developed an asynchronous HTTP/3 (HTTP over QUIC) [H/1.1 + H/2 compliant] library for server creation, integrating event loops (libev) and native Linux primitives, while leveraging Cloudflare's quiche implementation.
2. Achieved nearly 153x faster startup times and reduced p95 RTT by 50.97% compared to FastAPI.

ACHIEVEMENTS

- Knight on LeetCode - Rating: 1872 - Top 5.22%
- Secured first rank among 850+ students with a 9.9/10 SGPA, demonstrating academic excellence.
- Scored 99.30 percentile in the IIT-JEE Mains Exam and secured All India Rank 6 in CBSE 12 Boards.
- Open Source Contributor to JPMorgan/Salt DS and Todoist/Typist, maintainer of two research python packages.