

# Ayush Anand

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## EDUCATION

<b>National Institute of Technology</b>	Durgapur, India
Bachelor of Technology in Computer Science and Engineering — GPA: 9.46/10	
<ul style="list-style-type: none"><li>Courses: Data Structure and Algorithms, Operating Systems, Database Management System, Computer Networks</li><li>Organisations: Vice Chairperson @ Indian Society for Technical Education (ISTE) Students' Chapter</li></ul>	

## EXPERIENCE

<b>Software Engineer</b>	Gurugram, India
Zomato Limited	Dec 2024 - Present
<ul style="list-style-type: none"><li>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</li><li>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.</li><li>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%.</li><li>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.</li><li>Strengthened reliability and security across a microservices stack by optimizing high-latency APIs (profiling + otel metrics) and remediating critical vulnerabilities in old systems;</li></ul>	
<b>Software Engineer</b>	Remote, UK
DB News	Nov 2023 - May 2024
<ul style="list-style-type: none"><li>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.</li><li>Optimized Postgres database operations to achieve a remarkable 3ms latency for reads/writes through indexing and partitioning techniques, optimizing overall system responsiveness.</li><li>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.</li></ul>	
<b>Software Engineer Intern</b>	Mumbai, India
JP Morgan Chase & Co	May 2024 - July 2024
<ul style="list-style-type: none"><li>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.</li><li>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.</li><li>Strengthened overall system efficiency and reliability by implementing load balancing and optimized data processing frameworks to deliver high-impact business solutions.</li></ul>	
<b>Software Engineer Intern</b>	Remote
Google Summer of Code	May 2022 - Sept 2022
<ul style="list-style-type: none"><li>Architected and optimized a Python package to improve performance and scalability for marine researchers, reducing data processing time by over 70%. <a href="https://github.com/iobis/pyobis">github.com/iobis/pyobis</a>.</li><li>Refactored codebase to reduce size by over 50%, improving efficiency and enabling widespread use by researchers at the University of South Florida.</li><li>Implemented 5+ new features, resolved 27+ open issues, and boosted performance by over 75% within 4 weeks.</li></ul>	

## SKILLS

<b>Programming Languages</b>	Golang, Python, C++, C, TypeScript, JavaScript, Kuma distributed mesh, Postgres
<b>Libraries/Tools</b>	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

- 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.
- Achieved nearly 153x faster startup times and reduced p95 RTT by 50.97% compared to FastAPI.

## ACHIEVEMENTS

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- 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.