Aalok Yadav

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LinkedIn | **GitHub** | **Portfolio**

WORK EXPERIENCE:

Freelance Developer / Open-Source Contributor (Aug 2023 – Dec 2024)

- Developed a video-sharing and discovery platform with a Golang backend, React.js frontend, MongoDB and PostgreSQL databases, Redis for caching, and AWS S3 for file storage.
- Created a Flutter app for displaying real-time data using Firebase.
- Developed a distributed Discord game bot in Python and Golang using Netlify serverless lambda functions and mutex locks for Redis.

Mobile Programming LLC (Oct 2022 – Jul 2023)
Software Developer (Golang)

- Designed and implemented highly performant game engine backend services in Golang and Node.js for scalable web applications serving REST APIs and GraphQL.
- Developed event-driven architectures with RabbitMQ and Golang TCP sockets for asynchronous messaging between microservices and users.
- Optimized database interactions and caching strategies by integrating Redis, reducing query latency by up to 38%. Developed real-time logging and monitoring using Kibana + Elasticsearch APM, improving debugging efficiency
- Automated CI/CD pipelines using Jenkins and GitLab, Managed containerized applications in production environments using Kubernetes for high availability.

Tata Consultancy services (Nov 2019– May 2022)
Systems Engineer

- Built and tested Python backend services, then transitioned to React.js website testing and full-stack development
- Developed a microservice-based equipment ordering platform using Python, Golang, and React.js, improving order processing efficiency by 40%.
- Integrated client supply chain processes with internal websites and SAP systems, automating warehouse operations through SOAP and REST APIs.
- Originally hired as an SAP ERP Manual Tester but quickly pivoted to full-stack engineering by learning and applying new technologies.
- Received A Grade in performance appraisals continuously for 2 years.

SKILLS:

Languages:	Golang, Python, JavaScript (ES6+), SQL, C/C++
Front-End:	HTML5, CSS3, React.js, PWA, Vite, UI/UX Design, i18n
Backend:	REST, Flask, Node.js, gRPC, GraphQL, l10n
Datastores:	Redis, MySQL, MongoDB, PostgreSQL, AWS S3
Messaging:	WebSocket, RabbitMQ, Kafka, concurrency
Security:	JWT, CORS, SSL, XSS, Burp Suite, OWASP, Cryptography
Cloud:	Virtualization, CDN, Kubernetes, Docker, Git, Serverless lambda functions
AI / ML:	NumPy, Computer Vision, OpenCV, Tableau
Misc:	Flutter, FFMPEG, Web Streaming (HLS, Dash), SAP ERP
Testing:	SDLC, System testing, Integration testing, Unit testing, End-to-End testing

EDUCATION:
Bachelor of Technology - Computer Science and Engineering
Lovely Professional University, Punjab (2015-2019)

PROJECTS:

(Aug 2024 - Present)
Event Ticketing Platform with Local Discovery
- Designed and developed a full-stack event listing platform allowing users to create, browse and search events, purchase tickets and merchandise, and explore nearby places.
- Implemented in both vanilla JavaScript (Full) and React.js (MVP)
- Designed a flexible backend that is switchable between microservices and monolithic architectures.
- Implemented custom API Gateway and API proxy with CORS and XSS protection.
- *Tech. Stack: Golang, Python, JavaScript (ES6 and React.js), CSS3, Vite, MongoDB, Redis, JWT*
- **Demo**: https://zincate.netlify.app/

(Aug 2023 – Jan 2024)
Video-sharing and Editing Platform
- Developed the backend of video sharing platform allowing users to create, browse and search videos, add to collections, follow other users and browse collections.
- Integrated an advanced video player with keyboard and mouse support. Later updated for sharing images and Audio.
- *Tech. Stack: Golang, React.js, MySQL, Redis, JWT, AWS S3*
- **Demo**: https://gyfget.onrender.com/

ACHIEVEMENTS:
$5000 bug bounty by Google for finding remote code execution vulnerability in Android and chrome.

Why Hire Me?

Proven Expertise: Strong backend engineering and system design skills with deep CS fundamentals.
Performance-Oriented: Always focused on efficiency, scalability, and optimization.
Versatile & Adaptable: Successfully transitioned between multiple tech stacks and roles.
Hands-On Problem Solver: Passionate about building, debugging, and optimizing software solutions.