

Manas Bhole

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EDUCATION

Syracuse University - College of Engineering & Computer Science, Syracuse, NY
Master of Science in Computer Science – (3.7 / 4 CGPA).

Aug 2022 – May 2024

EXPERIENCE

Software Engineer, Amtelco, Madison, Wisconsin, USA

Jul 2024 – Present

- Collaborated with cross-functional teams to redesign the Elixir & Phoenix LiveView components, ensuring seamless integration with backend APIs and reducing overall system complexity by 25%.
- Designed and deployed **real-time communication systems** using **WebSocket** integration, improving call center response times and enabling faster resolution of customer queries.
- Built a microservices-based architecture for handling high-throughput audio processing and playback functionalities, integrating **Golang APIs** with existing legacy systems, improving audio playback efficiency by 30%.
- Architected scalable **API solutions in Golang** to optimize call routing and customer data synchronization, resulting in a 20% improvement in call center performance and reducing agent idle time.

Software Engineer, Boehringer Ingelheim - Legal Services, Ridgefield, Connecticut, USA

Jan 2024 – May 2024

- Designed and implemented high-performance **RESTful APIs in Golang**, integrating with SAP systems and third-party services to facilitate seamless communication between legal operations and manufacturing systems, reducing API response times by 40%.
- Spearheaded the transition from monolithic applications to a **microservices architecture** with Spring Boot, improving system scalability and enhancing deployment flexibility, leading to a 35% improvement in development cycle times.
- Led the development of a **high-throughput API gateway** using **Golang** and **gRPC**, optimizing internal services and reducing latency by 30%, resulting in a more efficient data exchange across multiple legal and manufacturing platforms.
- Integrated **JWT-based authentication** and **OAuth 2.0** for secure and scalable API interactions, ensuring compliance with legal standards and improving user access control by 25%.

Software Developer, Precise Software Solutions Inc - Cloud, Maryland, USA

Jun 2023 - Aug 2023

- Architected cloud-based applications on AWS platforms; collaborated with cross-functional teams to deliver solutions hence system performance by 50%, diminished application response time by 20%, and achieved cost savings of 40%.
- Leveraged workflows using MLflow and Jenkins CI/CD; defined Docker images, AWS SageMaker training, and S3 model storage, resulting in a 30% reduction in deployment errors.
- Composed cloud infrastructure management by implementing Infrastructure-as-Code (IaC) tools such as Terraform, achieving consistent deployment of cloud resources and optimizing application development maintenance while reducing deployment time by 40%.

Software Application Developer, Metis Consulting Group, New York, USA

Sep 2022 - May 2023

- Crafted an efficient inventory management system leveraging React and Node.js, bolstered by TDD practices and integrated with Azure for a 30% boost in operational performance and scalability.
- Spearheaded integration of Golang-routines and channel-based synchronization techniques to transform core inventory system, increasing transaction throughput by 40% and enabling precise tracking of gear manufacturing workflows.
- Developed a comprehensive automated testing suite using Jest and Cypress, resulting in a 50% reduction in bug reports and ensuring robust code quality and reliability.

Software Engineer, Bharat Gears Ltd, Mumbai, India

Aug 2018 - May 2022

- Assessed a team in upgrading a recommendation engine built with Golang and Elasticsearch, slashing operational costs by 80% and securing a swift 2 ms response time per request.
- Conducted performance tuning of applications using SQL optimization techniques, reducing system resource utilization by 40% and improving response times.
- Led LRU and Redis caching to reduce application latency by 90%, streamlining data retrieval processes and enhancing real-time analytics with Datadog across teams.
- Innovated a high-performance, thread-based utility using Golang, which drastically controlled project build time from 11 minutes down to 2 minutes, paving the way for development efficiency, particularly for the low code/no code platform.

PROJECTS

Banking Application: Java | Spring-Boot | Maven | JWT.

- Serviced a 50% reduction in latency for high-volume transactional operations by optimizing database integration and query performance, while ensuring PCI DSS compliance through the restructuring of OAuth2 and JWT integration with Spring Security.

Stream-Sphere - A Next-Gen Streaming Platform Deployment: Reactjs | MongoDB | OWASP | REST | Docker | Kubernetes | SonarQube | Trivy.

- Streamlined release processes security standards by overhauling deployment strategy with Docker and Kubernetes, integrating SonarQube and Trivy in the CI/CD pipeline, and maintaining a 0% critical vulnerabilities rate for six months.

TECHNICAL SKILLS

- Languages: Python, Java, JavaScript, C++, R, DNS, UNIX, PHP, Groovy, GraphQL, C#, PERL, Ansible, RabbitMQ, DAX.
- Databases: MySQL, MongoDB, PostgreSQL, MariaDB, NoSQL, CassandraDB, DynamoDB, OracleDB, CosmosDB.
- AWS | Azure: EC2, Cloudformation, S3, Lambda, Athena, Lightsail, ElastiCache, Beanstalk, Databricks, Pipelines, Artifacts, DNS.
- Visualization Tools: Tableau, Microsoft Power BI, Quilk Sense, Grafana, Google Charts, Prometheus, ArcGIS.
- Leadership: Collaborated with 5 cross-functional teams to gather requirements and define project scope to optimize data processes.