Irfan Ahamed Kodakkadan

IIT Bhilai 2023 | Software Engineer | 2 YOE

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Education

Indian Institute of Technology, Bhilai   *July 2019 – May 2023*
Bachelor of Engineering in Electrical Engineering

- GPA: 7.15/10
- **Coursework:** Cryptography, Software Tools and Technologies, Artificial Intelligence, Operating Systems.

Technologies

Languages: C#, Go-lang, Java, JavaScript, Python, C++, C.

Database: SQL, PostgreSQL, MongoDB, Elastic Search.

Technologies: ASP.NET, Micro-Services, JQueries, JUnit, Selenium, Google Cloud, Postman.

Experience

Software Engineer-1   *Bangalore, India*
AirAsia Move   *September 2023 – Present*

- Contributed to the migration of existing legacy backend systems to Go-lang based microservices, resulting in a more scalable service while reducing memory usage by 85% and, overall, a more maintainable code base.
- Created a library utilized for pricing and hotel vacancy validation, employed Git sub-modules to avail the library across multiple projects. This centralized logic and improved maintainability company-wide.
- Collaborated on database migration efforts, designing and implementing scripts to transition from PostgreSQL to Google Cloud Services, ensuring seamless data transfer and no loss of data.
- Mitigated a severe information security vulnerability by rapidly pushing a fix that blocked unauthorized access to critical links, protecting sensitive financial and customer data.
- Reduced database load by over 72% by integrating strategic Redis caching
- Implemented new Admin pages using pagination and filtering for improved data management and user experience.
- Helped optimize website to reduce server loads while maintaining a better customer experience
- Helped create Admin pages for quickly gather Useful data on user purchases and generating a report for the marketing teams
- Built and created unit tests driven development workflow in out CI/CD pipeline to ensure robust, error free and high-quality code.
- Implemented Grafana charts and automated alerting to catch errors quickly and reduce service downtime with fast correction

Projects

Kalyna E2EE Chat   Nov 2021 - Dec 2021

- Implemented Kalyna Encryption, Key Scheduling, Hash and Compression Functions in Java
- **Tools**: Java, junit, multi-threading.
- **Sources**: Kalyna Git ↗, Documentation ↗

Delta   September 2023 - Present

- Uses Fast Hashing Algorithms to find the duplicate files and folders in your system
- **Tools**: Java, Cryptograph, OS
- **Sources**: Delta Git ↗