BABA SHANKAR SN

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Education

Bachelor of Technology	**PES UNIVERSITY**	*Bangalore, India*	**2019-2023**

- Major in Computer Science and Engineering
- CGPA: 8.66

Skills

- **Programming Languages**: Golang, Python,MySQL, Java.
- **Deployment Tools**: Docker, Kubernetes.
- **Developer Tools**: VS Code, Eclipse, Git, GoLand.
- **Relevant Concepts**: Distributed Systems, Concurrency in Go,Operating systems, Data Structures, Algorithms, MySQL, OOP in Java, Computer Networks, Database Management

Experience

Software Engineer	**Akamai Technologies**	*Bengaluru, KA, INDIA*	**08/2023 - present**

- Developed and maintained backend services for the *Origin WAAP (Web Application and API Protection)* project, focusing on web applications and firewall management.
- Implemented backend service registrations, configurations, and metrics collection for WAAP instances using **Go**.
- Utilized **Gorilla Mux** for efficient routing in backend services, ensuring scalability and reliability.
- Worked extensively with **DataBattery**, Akamai's proprietary database built on **Apache Cassandra (NoSQL)** for managing large-scale data.
- Actively contributed to the deployment pipeline using **Docker** and **Kubernetes** for containerization and orchestration.
- Managed certificate authentication and integrated **concurrency** using **Goroutines** and channels to optimize backend processes.
- Collaborated closely with cross-functional teams to design, implement, and enhance key features.

Projects

Origin WAAP | *GO, NoSQL*
- Collaborated on the backend development for Akamai's Origin WAAP, a service offering web application and API protection in **GO**
- Designed and implemented REST APIs for configuration management, leveraging **Gorilla Mux** for routing.
- Worked extensively with **DataBattery**, Akamai's proprietary database built on **Apache Cassandra (NoSQL)**, using **normalization techniques,** to efficiently store and manage data.
- Implemented deployment automation using **Docker** containers and managed application scaling and orchestration through **Kubernetes.**
- Optimized performance through **concurrency** techniques using **Goroutines** and channels.

Smart Driving Assistance. | *Python, Deep learning.*
- Developed a Smart Driving Assistance that assists drivers while Driving.
- Features like Lane detection, Traffic sign detection, and Recognition and voice alerts are implemented
- Two separate models are trained using deep learning using 2 datasets and the integration is being done and thoroughly tested.

Hospital Management System. | *PostgreSQL, Node.js, HTML/CSS*
- Developed a website that enables patients to book appointments with doctors.
- A **PostgreSQL** database is created and the design is carefully handled.
- Patients may use this website to submit their information and symptoms, verify the availability of a specific doctor, and schedule a consultation with him.
- It also allows doctors to keep track of the patients they've been assigned to, examine their information and symptoms,
- and write prescriptions for them

Conference Presentations

- International Conference on Computational Sciences and Sustainable Technologies, 9th May 2023, Bangalore, India - Smart Driving Assistance Using Deep Learning

Hobbies/Interests

Watching Movies, Photography, and Graphic designing.