

# Shubham Ghadge

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## Summary

Software Engineer with experience in cloud computing, microservices, and full-stack web development. Supports effective project delivery and internal application maintenance by developing responsive web interfaces, integrating APIs, and streamlining data workflows. Skilled in optimizing application performance, managing CI/CD pipelines, and debugging issues. Eager to apply technical expertise to software and web-based system development.

## Education

**California State University, Sacramento** August 2024 – May 2026  
*Master's in Computer Science*

## Experience

**Software Engineer - Great Software Laboratory | GAVS, Pune** July 2019 – July 2024

- Led development of a modular web app to streamline data entry, reducing form submission time by over 60%.
- Built efficient frontend-backend communication using REST APIs for real-time validation and updates.
- Created tools to extract, display, and edit structured data from internal systems.
- Improved app performance by 70% through load testing, caching, and query optimization.
- Added error tracking and request logging for better debugging and observability.
- Implemented RBAC and ABAC to secure data access in internal web interfaces.
- Managed CI/CD using GitHub Actions and Helm for automated deployment and testing.
- Wrote modular, testable code in Python, JavaScript, and Go; participated in code reviews.
- Prototyped internal authentication using OAuth2 and custom session handling.
- Contributed to sprint planning, estimations, and technical discussions.
- Worked with designers and engineers to integrate features into frontend apps.
- Prepared onboarding guides and led walkthroughs for new developers.
- Supported interview process by evaluating student candidates and providing feedback.

## Projects

**Internal Tag Management Tool | Python, JavaScript, React, Docker, PostgreSQL** January 2024 – July 2024

- Developed a web-based tool for managing resource tags, with CRUD, search, and policy validation features
- Integrated the backend service with existing internal APIs and user roles to support secure access.
- Built a minimal frontend UI and supporting CLI using the Cobra library for internal developer use.
- Implemented batch validation and downloadable reports for tag compliance across projects.

**Inventory Management Interface | Go, JavaScript, React, PostgreSQL, MongoDB** June 2021 – July 2024

- Built and maintained a backend service to process and store high-volume inventory records from multiple sources.
- Improved frontend dashboard load time by implementing data caching, pagination, and query indexing.
- Added user access controls and role-based filters using custom middleware and policy rules.
- Integrated OAuth 2.0 login flow with secure session management and token handling.

**Cloud Asset Sync & Monitoring Tool | Go, JavaScript, WebSockets, MongoDB, Kafka** June 2019 – July 2024

- Built extractors to collect asset data from public and private clouds, processing over 500,000 records/hour.
- Developed web UI modules to monitor discovery runs, asset counts, and cloud-specific metadata.
- Implemented sync logic for merging cloud asset data from multiple sources into a unified model.
- Used WebSockets and Kafka to push real-time asset updates to the frontend dashboard.

## Technical Skills

**Proficiency - Technical:** Python, Go (Golang), JavaScript, HTML, CSS, Bash, Git, MongoDB, PostgreSQL, REST APIs, Docker, GitHub Actions  
**Familiar - Technical:** PHP, ReactJS, TypeScript, WebSockets, Express.js, Flask, Kubernetes, OAuth2, RBAC, ABAC, AWS, GCP, Kafka  
**Social:** Teamwork, Communication, Collaboration, Adaptability, Problem Solving