

SHREYASH

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EDUCATION

Birla Institute of Technology and Science, Pilani
Bachelor of Engineering in Electronics and Communications Engineering

Goa, India
Aug. 2019 – Aug. 2023

EXPERIENCE

Software Engineer Sep. 2025 – Present
TestMu AI (formerly LambdaTest) India

- Designed and built the asynchronous operations framework in **Go** that now powers **10+ long-running operations** across the product; other engineers plug their own jobs into it without touching the engine, and it runs as a dedicated **Kubernetes** service in two regions with automatic recovery and configurable concurrency.
- Led the zero-downtime migration of the platform's secret storage to self-hosted **HashiCorp Vault**, owning the design and driving the staged rollout to production with no disruption to running jobs.
- Extended the **AI test agent** with press-and-hold, multi-click and right-click interactions, working across the natural-language instruction pipeline (**LLM** prompting, parsing and validation), live recording, replay and code export, over ten repositories in Go, Python, JavaScript and Swift.
- Re-engineered upload and parsing pipelines to stream instead of buffer, raising supported file sizes **4x** on one service and to **1 GB** on another, and cutting peak memory on large files by roughly **99%**, backed by fuzz and differential testing.
- Restored Firefox console logging by adopting the **WebDriver BiDi** protocol after the legacy logging API was dropped, shipped behind a feature flag.

Software Engineer Jul. 2023 – Aug. 2025
ZapCom Group Inc Bengaluru, India

- Took complete technical ownership of platforms for customer loyalty programs, using **Angular** for front-end interfaces and **AWS Lambda** and **DynamoDB** for scalable, serverless back-end solutions.
- Resolved over **250** issues within strict SLAs for a **70%** reduction in high-priority issues, cut third-party API calls by **90%** with a round-robin CRON strategy, and automated organization setup from **1 hour to 5 minutes**, enabling onboarding of 100+ clients.
- Built an AI-powered chat interface using **MCP** and OpenAI APIs that generated sales leads and pitch messages, earning **Top 5** project recognition at Zapathon 2025.

Product Development Intern Jul. 2022 – Dec. 2022
Blue Yonder Remote

- Developed scripts for a custom in-house application to automate testing of new features, integrating with **Jenkins** to trigger and manage test executions, and added new **Python** functions that streamlined script development.

Backend Developer Sep. 2020 – Nov. 2020
The Caarya Experience Remote

- Developed the backend of an HR management tool, implementing authentication, role management and third-party integrations, and assisted with frontend integration and bug fixing.

PROJECTS

Stock Market Emulation | *Golang, Kafka, Debezium, Websockets, ReactJS* Aug. 2024 – Sep. 2024

- Developed a stock emulation system using Kafka producers to simulate price changes, with consumers updating the database and a Debezium-based consumer monitoring changes to keep pricing accurate and consistent.
- Streamed real-time pricing to the frontend over WebSockets for live visualization.
github.com/resonantChaos22/learning-kafka

Plan Subscription System | *Golang, Postgres, Go-Chi* May 2024 – Jun. 2024

- Developed a plan reservation system that sends emails, generates invoices and creates manuals concurrently, with graceful shutdown so in-progress requests finish before termination. github.com/resonantChaos22/go-plan-subscription

TECHNICAL SKILLS

Languages: Golang, Typescript, Python, C/C++, SQL (Postgres, MySQL), HTML/CSS
Libraries/Frameworks: NestJS, Express, React, Redux, Go-Chi, AWS SAM, MCP, OpenAI API
Developer Tools: Kubernetes, Docker, Kafka, Redis, HashiCorp Vault, Debezium, Jenkins, Git, Claude Code
Platforms: AWS (Lambda, DynamoDB, Cognito), Azure, GCP, Linux

CERTIFICATIONS

Architecting with Google Compute Engine Specialization – Coursera, July 2022