

# MUKESH GANDHARVA

## Software Developer at DELL | IIT Grad' 2022

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I have a strong foundation in software development and enjoy solving complex problems with creative, efficient solutions. Over the past 3+ years, I've built scalable backend and full-stack systems using Golang, TypeScript, React, and Kubernetes, and automated CI/CD pipelines to streamline deployments. With an M.Tech from IIT Guwahati and research in NLP and speech processing, I'm passionate about creating secure, user-friendly software and continuously growing as a developer.

### SKILLS:

Programming Languages	Golang, TypeScript, JavaScript, Python, C, C++, Java, YAML
Databases	Postgres, MySQL, Redis
Frameworks/Libraries	Gin, Flask, ReactJs,
Testing Frameworks	Go Testing, Testify, Cypress, Ginkgo
Containerization & Orchestration	Kubernetes, Docker, Podman, Helm
Monitoring & Logging	Splunk
Static Site Generators	Hugo
Continuous Integration/Deployment	Jenkins, CI/CD,
Operating Systems	Linux, Windows

### EXPERIENCE:

#### Dell Technologies

#### Software Engineer 2 | July 2022 – Present

##### Container Storage Module (CSM)

- Integrated CSM Authorization with CSI PowerStore using Golang, enabling multi-tenancy, RBAC, and tenant quota tracking. Delivered secure deployments via CSM Operator and Kubernetes tools, supporting clients like Road Transport Authority, DDA, MORO, DEWA, and Telenor.
- Extended CSI PowerStore for custom host connectivity (iSCSI/FC) by updating node service logic, secret configurations, and unit tests, improving flexibility for diverse environments.
- Enhanced CSM documentation site using Hugo, adding CLI usability features like copy-to-clipboard, improving customer efficiency by 50%.
- Automated GitHub release workflows for CSM libraries, enabling one-click releases that cut release time from days to minutes and reduced manual errors by 90%. This streamlined tagging, release PR creation, and review processes, accelerating deployment cycles significantly.
- Contributed to csm-operator development, building the Minimal Sample feature to optimize deployment YAMLS for CSI drivers and CSM modules, reducing configuration overhead and simplifying Kubernetes deployments.

##### APEX Navigator for Kubernetes (ANK8s)

- Developed license management workflows using TypeScript and ReactJs, enabling users to apply for 90-day trial licenses or upload full XML-based licenses, enhancing UX and ensuring compliance for trial and production deployments.
- Implemented brownfield Kubernetes cluster onboarding in Golang, allowing seamless integration of existing PowerFlex CSI deployments. Leveraged Goroutines for concurrent processing and integrated APIs for version validation, license checks, and dynamic storage discovery—eliminating reinstallation.

##### OpenManage Integration for ServiceNow (OMISNOW)

- Developed secure redirection confirmation using Java and JavaScript, introducing prompts for external link navigation to improve security and user trust.
- Served as Scrum Leader and Core Developer, leading Agile ceremonies (stand-ups, sprint planning, retrospectives) and aligning team coordination with technical execution to boost velocity and ensure on-time delivery.

Tech Stack: Golang, TypeScript, React, Java, Python, Kubernetes, Helm, Hugo, Markdown, JavaScript, Jenkins, Docker, Postgres, MySQL, Redis, Splunk.

### PROJECTS:

- Event Detection from Short Stories  
(Dr. Ashish Anand, Asst. Prof., CSE, IIT Guwahati (May 2022))
  - Created a dataset of Indian short stories in English, adapted annotation guidelines, and enhanced an annotation tool.
  - Built an NLP-based model for event extraction using the dataset
- Vowel Recognition using Preprocessing of Raw Speech data  
(Dr. P. K. Das, CSE, IIT Guwahati)
  - Preprocessed raw speech signals using framing, windowing, and autocorrelation analysis.
  - Predicted vowels using linear predictive analysis with cepstral coefficients.
  - Tools: Visual Studio, C++, Cool Edit Software

### EDUCATION:

#### IIT Guwahati

Computer Science & Engineering | M. Tech | August/2020 – June/2022