

# 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