JEGAN V G

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in JeganVG | ○ JeganVG | *Credly* JeganVG

Coimbatore, TamilNadu - 627804, India

SUMMARY

Software Development Engineer with a strong foundation in Enterprise Data Protection and Cloud Infrastructure. Currently driving core feature development for Commvault's Files and Objects team, delivering automated Third-party Migration engines and high-performance Windows File System solutions. As a Gold Medalist in B.Tech Artificial Intelligence & Data Science with a research focus on Generative AI and NLP, I am looking to leverage my dual expertise in scalable systems engineering and deep learning to drive innovation in Machine Learning Engineering roles.

EXPERIENCE

• **Commvault Systems, Inc. [⊕]**   *November 2024 - Present*
Software Development Engineer   Coimbatore, India
  ◦ **Full-stack developer** for the Files and Objects team, delivering core features for **Third-party Migration**, **File Archiving**, and **Windows File Systems.**
  ◦ **Feature owner** for multiple core components, driving end-to-end development, enhancements, and Level-3 production support.
  ◦ Resolved **50+ critical customer escalation tickets** and led **30+ live customer sessions**, directly contributing to improved system stability and customer retention.
  ◦ Delivered **12+ major feature initiatives** and **150+ updates**, ensuring high availability and zero-regression quality across releases.

• **Commvault Systems, Inc. [⊕]**   *April 2024 - October 2024*
Software Development Intern   Coimbatore, India
  ◦ Developed automated migration engines for **Veeam** and **TSM** workloads, enabling the seamless transition of legacy third-party data to Commvault.
  ◦ Engineered system-level utilities **(CVFSUtil, DirChange Populator)** to optimize Windows incremental backup scans and content distribution.

• **APPRANIX, INC. [⊕]**   *Dec 2023 - April 2024*
Programmer Analyst Trainee   Coimbatore, India
  ◦ Contributed to "**AnomStack**", an Anomaly Detection system, by developing logic to identify irregular patterns in cloud resource usage.
  ◦ Developed **Web Adapters** for Azure using Java Spring Boot, enabling automated discovery and protection of cloud infrastructure assets.
  ◦ Gained hands-on expertise in Cloud Infrastructure (AWS/Azure) management and backend development using Spring MVC and RESTful Web Services.

EDUCATION

• **Mepco Schlenk Engineering College**   *2020 - 2024*
Bachelor of Technology in Artificial Intelligence and Data Science   Sivakasi, India
  ◦ GPA: 9.26 - Gold Medalist

• **Bharath Montessori Matric Higher Secondary School**   *2020*
Higher Secondary Education   Tenkasi, India
  ◦ Percentage: 85.16

• **Bharath Montessori Matric Higher Secondary School**   *2018*
Secondary Education   Tenkasi, India
  ◦ Percentage: 97

PROJECTS

- **Eventually Consistent Backup** *Stack : Cpp*
  Commvault Systems, Inc. October 2025 - present
  - Architected a high-performance **Index-Based Scan method**, replacing a 20-year legacy file tracking system ("DirChange") to eliminate critical memory bottlenecks.
  - Engineered an **eventually consistent** backup model, decoupling immediate synchronization from data capture to significantly reduce memory consumption at enterprise scale.
  - Designed the dependency logic to prioritize the capture of new/modified items, ensuring data integrity while enabling **scalability** for massive file systems.

- **Archive Compliance Reporting System** *Stack : Cpp, C#, React JS*
  Commvault Systems, Inc. May 2025 - October 2025
  - Designed a secure reporting framework to track qualified items for archiving, enabling customers to meet strict compliance audits.
  - Developed a **new API** to fetch reports from proxy/local clients to the web server cache, enabling downloads via web clients while securing the pipeline with RBAC and SQL-injection validations.
  - Built React.js frontend components (Download-Loader, Notifications) to manage large-scale report downloads (>2GB) with automatic compression and real-time progress tracking.

- **Real-Time VSS Error Monitoring** *Stack : React JS, SP*
  Commvault Systems, Inc. May 2025 - October 2025
  - Engineered a full-stack monitoring feature to surface critical Volume Shadow Copy Service (VSS) errors directly on the "Needs Attention" dashboard.
  - Extended Stored Procedures and Common APIs to track failures during FileScan and Backup phases, replacing manual log analysis with real-time UI alerts.
  - Implemented logic to automatically flag and reset client error states, significantly reducing troubleshooting time for Windows infrastructure.

- **Third-Party Workload Migration (Veeam & IBM TSM)** *Stack : Java, Python, Shell scripting*
  Commvault Systems, Inc. July 2024 - October 2024
  - Engineered an automated migration framework to transition legacy Veeam and IBM Spectrum Protect (TSM) backups into Commvault, eliminating vendor lock-in for enterprise clients.
  - Designed the Staging & Ingestion architecture, utilizing intermediate staging clients to "re-hydrate" third-party data before efficiently ingesting it into Commvault storage.
  - Developed PowerShell and Shell-based automation wrappers to orchestrate dsmc restore (TSM) and Veeam command-line operations, ensuring reliable data extraction without manual intervention.

- **GAN-Guard** *Tools : GAN, Encoder-Decoder, CUDA, Python, React JS, Node JS*
  Mepco Schlenk Engineering College December 2023 - February 2024
  - Designed a **Generative Adversarial Network (GAN)** to synthesize realistic deepfake images, creating a robust training dataset for detection models.
  - Fine-tuned a **DeepLab V3** segmentation model to identify and localize manipulated facial regions (beard, skin tone) with high precision..
  - Built a user-facing React.js interface to visualize "fakeness heatmaps," bridging the gap between complex model inference and end-user accessibility.

- **Automatic Notes Generating and Content Management System** *Tools : React JS, Node JS, BERT*
  Mepco Schlenk Engineering College January 2023 - June 2023
  - Content Management System for Stored Lectures from FTP.
  - Automatic Notes Generation by Summarizing transcripts from speech to text (Google's Speech to text API) and Queries resolving chat bot using BERT.

- **Online Analytical Processing of Youtube video's metadata.** *Tools : React JS, Node JS, Chart JS*
  Mepco Schlenk Engineering College January 2022 - June 2022
  - Analyzed and answered questions like how much the youtuber is involved in influencing the social media using Youtube metadata about videos and channels.
  - Visualization using chart js which contains representations like Bar Chart, Line Chart, Pie Chart...etc

SKILLS

- **Programming Languages:** C, C++, Python, Java
- **Web Technologies:** HTML, CSS, JS, TS, React JS, Node JS, Express, Django
- **Database Systems:** SQL (MYSQL, POSTGRESQL) , NOSQL (MongoDB)
- **Data Science & Machine Learning:** MatLab, Sklearn, Pandas, numPy, Keras, TensorFlow
- **Cloud Technologies:** AWS, Azure, GCP, IBM
- **Backup Systems:** NetBackup, TSM, Commvault, Veeam
- **Specialized Area:** Software Development, Automation,
- **Other Tools & Technologies:** 3D Designing, Video Editing

HONORS AND AWARDS

• Mepco Management Scholarship   *2020, 2021, 2023*
Mepco Schlenk Engineering College
  ◦ Received Scholarships for Academic Excellence

VOLUNTEER EXPERIENCE

• Secretary   *2023 - 2024*
Microsoft Campus Club - Mepco Schlenk Engineering College
  ◦ Conducted various programs and seminars in growing technologies

CERTIFICATIONS

- **Metallic Solution Architect**   *Aug 2024*
- **Commvault Solution Architect**   *Jul 2024*
- **AWS Certified Cloud Practitioner**   *Jul 2023*
- **IBM Tools for Data Science**   *Aug 2022*
- **IBM Data Science Methodology**   *Jul 2022*

ADDITIONAL INFORMATION

Languages: English (Proficiency level), Tamil (Proficiency level), Hindi (Intermediate level)
Interests: Football, Cricket

REFERENCES

1. **Mr. Premchand Loganda Ramamoorthy**
   Senior Engineer III, Engineering,
   Commvault Systems, Inc.
   Email: plogandaramamoorthy@commvault.com

2. **Dr. J. Angela Jennifa Sujana**
   Head of Department, Artificial Intelligence and Data Science,
   Mepco Schlenk Engineering College, Sivakasi
   Email: ang_jenefa@mepcoeng.ac.in