

Karthik V T

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SUMMARY

Electronics and Communication Engineering graduate with a strong foundation in **Software Development, DevOps, and Cloud Computing**. Experienced in designing scalable systems, implementing automation, and streamlining deployment processes. Quick learner with proven ability to adapt to new technologies, collaborate in teams, and contribute to delivering high-quality, reliable software solutions. Looking forward to applying my skills and growing with a forward-thinking company.

EXPERIENCE

Project Trainee

Feb. 2025 – May. 2025

BMS Institute of Technology and Management

Bangalore, India

- Implemented a complete **CI/CD pipeline** on Linux using **Jenkins** and **Docker**, improving release cycles by 40%.
- Worked extensively with **Linux environments** for build, deployment, and troubleshooting; gained experience with system commands, process management, and log analysis.
- Automated routine system and cloud tasks using **Bash scripting**, reducing manual effort by 80% and improving reproducibility.
- Collaborated in incident response and **Linux-based troubleshooting**, documenting findings to strengthen system reliability.

PROJECTS

AWS Cloud Infrastructure Design | *EC2, VPC, Load Balancer, Auto Scaling, S3, IAM*

- Designed and deployed a **scalable web application backend** on AWS across multiple Availability Zones.
- Implemented secure networking using **VPC** with public/private subnets, NAT gateway, and S3 gateway.
- Configured **EC2, Auto Scaling, and Load Balancer** for fault tolerance and high availability.

End-to-End CI/CD Pipeline for Java App | *Java, SQL, Jenkins, Docker, Argo CD*

- Developed a **Java application** with database integration and automated build/testing pipelines.
- Set up **Jenkins** for unit testing, static code analysis, and **Docker** containerization.
- Automated Kubernetes deployment using **Argo CD**, reducing release cycles by 40%.
- Collaborated with developers to ensure code quality, scalability, and smooth delivery.

AWS Usage Reporting Automation | *Python, Bash, AWS CLI*

- Automated **AWS EC2, S3, and Lambda** usage and cost reporting with **Python** and **Bash scripts**.
- Enhanced resource visibility by integrating AWS Cost Explorer with alert-based monitoring.
- Cut manual reporting effort by 80% and enabled proactive cost optimization.

TECHNICAL SKILLS

Programming: Java (Core Java, OOPs), C++, SQL

Software Development: Data Structures & Algorithms, Object-Oriented Programming, REST APIs

DevOps Tools: Git, Jenkins, Docker, Kubernetes, Argo CD, Terraform

Cloud Platforms: AWS (EC2, S3, IAM, VPC, Auto Scaling)

Operating Systems & Networking: Linux (Ubuntu, CentOS), TCP/IP, DNS, DHCP

Development Practices: Agile, Scrum, CI/CD, GitOps

EDUCATION

BMS Institute of Technology and Management

Bangalore, India

Bachelor of Engineering in Electronics and Communication **CGPA: 7.71**

Dec. 2021 – June 2025

Sri New Chaitanya PU College

Bellary, India

Pre-University Education (PCMB) **Percentage: 84.33%**

Aug. 2019 – May 2021

ACHIEVEMENTS

Won **1st place** in a project-based learning competition for delivering an innovative technical solution (3rd semester).

Secured **Runner-up position** in a project-based learning competition, recognized for technical depth, problem-solving, and teamwork (5th semester).