

# KARTHIKNATHAN C

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## OBJECTIVE

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Software Engineer with 5 years of experience in NoSQL, Cloud and Kubernetes, seeking full-time SDE roles.

## EDUCATION

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**Bachelor of Information Technology**, Thiagarajar college of Engineering  
8.95 CGPA: First Class with Distinction.

2016 - 2020

## SKILLS

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<b>Area of Interest</b>	Kubernetes, Distributed Databases, Cloud
<b>Programming Languages</b>	Python, Java, Golang, HTML/CSS/JS, Groovy
<b>Cloud Technology</b>	Google Cloud compute, GKE/EKS/AKS, AWS S3, Hashicorp Vault/consul
<b>Database Systems</b>	Apache and Datastax Cassandra, MongoDB, MySQL, PSQL, Redis
<b>Frameworks and Tools</b>	Java Spring, Flask, React, JUnit, Docker, Ansible
<b>DevOps and GitOps</b>	Git, Gitlab, Jenkins, Zuul, argoCD, Spinnaker

## EXPERIENCE

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### Software Engineer 2

VMware by Broadcom

Jul 2023 - Present

*Chennai, Tamilnadu*

- Contributed to Tanzu Connectivity and Security and Datapath in VMWare Tanzu.
- Developed Kubernetes controllers for enhancing Tanzu Service Mesh, enabling capabilities in internal developer platform (IDP) to deploy application with multi-tenancy.
- Developed Infrastructure code using Golang and comprehensive Unit and Integration Testing with code coverage analysis.
- Enhanced CI/CD proficiency with Zuul, GitLab, Jenkins, and Groovy scripting for streamlined software delivery.

### Software Engineer

Lowe's India

Aug 2021 - Jan 2023

*Bangalore, Karnataka*

- Experience in infrastructure, operations, security, service and development in database architecting.
- Implemented DBaaS (Database as a Service) and STaaS (Storage as a Service) solutions using the Java Spring Framework.
- Implemented Automated GCP patch mechanism for database installed compute instances.
- Achieved a 1M USD monthly cost reduction by migrating databases to their open-source versions.
- Created a monitoring setup with Grafana and Prometheus exporter, ensuring stability during peak seasons.
- Enabled an ADDM-like inventory tool for six NoSQL databases across thousands of VMs and physical servers.
- Developed Cassandra setup in K8s.

### Member Technical Staff

Zoho

July 2020 - Aug 2021

*Chennai, Tamilnadu*

- Specialized in Java backend development
- Specialize in backend development for Zoho Creator, optimising functionality, security, and scalability.
- Added Unit Test Coverage for legacy application.
- Contributed in processing custom markup language.

## **Project Trainee - Internship**

Zoho

Dec 2019 - July 2020

*Chennai, Tamilnadu*

- Developed an ANTLR Parser for parsing custom scripts, enhancing validation capabilities.

## **AWARDS**

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- Spot Awards (Lowes)
  - Spot Award - Migrating Datastax Cassandra to Apache Cassandra for large scale, high volume retail applications.
  - Team Excellence Award - Developing DBaaS and STaaS as self-service application.
  - Spot Award - Inventory Solution for Database servers.
- Online Hackathon Winner (Rajasthan 4.o) - Sentimental Analysis Solution for Social media data.
- Coders Club (TCE) - Competitive Programming.

## **LEADERSHIP**

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- SME for Cassandra DB for IST.
- Team Leader in Internal Hackathon at Lowe's India.
- NSS Volunteer in college

## **CERTIFICATIONS**

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- React Native from Cognixia Technologies.
- Advanced Python Programming from edX.