

# G Karthik Raja

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"Simple is better than complex. Complex is better than complicated."

## Summary

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As a software engineer with more than 2 years of experience, I played a pivotal role in the success of my current company. Being a founding engineer, I spearheaded the development of the core features of the product and contributed to making them highly marketable. Recognized as a dedicated team player, I thrive in startup environments leveraging best practices to drive innovation and achieve outstanding results.

## Work Experience

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**Mindkosh AI** (beta.mindkosh.com)  
Software Engineer

New Delhi (Remote)  
Jun 2021 - Present

- **Data Ingestion:** Offloaded file handling from the application server by implementing a secure multi-region S3 data ingestion system using SQS, Redis Queue and Lambda.
- **Dataset Management System:** Helped the users create and manage various kinds of annotation datasets by implementing the dataset management feature.
- **Multi-tenant System:** Enabled members to be part of multiple organizations and seamlessly switch between them by leveraging two-stage token-based authentication and role-based authorization system.
- **Video Processing:** Enabled users to create video annotation tasks with ease by implementing and deploying video processing system on ECS cluster.
- **Dev Environment:** Enhanced the productivity of my team by developing a docker-based development environment integrated with git hooks, resulting in nearly 60% reduction in setup time and ensuring development/production parity.
- **Security:** Made the platform safe and secure for the users by implementing hashed authentication tokens, CSRF protection for REST APIs and defence against login CSRF attacks.
- **Server Sent Events:** Helped the frontend team avoid expensive polling on the UI for the file upload status by leveraging Redis Pub-Sub and server sent events.
- **Miscellaneous:** Facilitated seamless engagement for users by implementing Google OAuth and Captcha, invitation, notification, and subscription systems.

## Skills

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- **Back-end:** Django, REST API, PostgreSQL, Redis Queue, FFmpeg
- **DevOps:** AWS, Docker, GitHub Actions
- **Programming:** Python, SQL, Shell Scripting
- **AWS:** EC2, S3, Lambda, SQS, ECS (Fargate), IAM, ECR
- **Miscellaneous:** Git, UML, Object-Oriented Programming, Web Security, JIRA, Agile (Scrum)

## Education

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**Shri Vaishnav Institute of Technology and Science**  
Bachelor of Engineering in Electrical and Electronics

Indore, Madhya Pradesh  
Jul 2013 - Aug 2017