

# Ashish Malik

+91-8291766933 – [malikashish493@gmail.com](mailto:malikashish493@gmail.com) – [in/ashishmalik47](https://in.linkedin.com/in/ashishmalik47) – [github.com/ashish493](https://github.com/ashish493) – [ashishmalik.in](mailto:ashishmalik.in)

## EDUCATION

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**International Institute of Information Technology, Bhubaneswar**  
*Bachelors of Technology in Electronics and Telecommunication*

August 2018–May 2022  
*CGPA:7.20*

## EXPERIENCE

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**Comviva Technologies**  
*Software Engineer*

August 2022–Present  
*Bhubaneswar, IN*

- Developed and maintained a robust microfrontend architecture, leveraging **Docker** for efficient containerization, ensuring seamless deployment and scalability.
- Led the migration of legacy micro-frontends from Struts to **Angular**, improving developer productivity and cutting initial load times by optimizing front-end performance.

**Casbin**

May 2021–August 2021

*Google Summer of Code Student*

*Remote*

- Engineered a [Kubernetes middleware](#) that dynamically enforces Casbin policies for user authorization across Kubernetes resources and operations.
- Enhanced the Kubernetes middleware to support extensive **Kubernetes** operations and resource types, strengthening system security.
- Developed an [Envoy middleware](#) to enforce Casbin policies within Envoy, enabling deployment across service meshes and implemented a **gRPC server** for streamlined communication.

**OWASP Foundation**

May 2020–September 2020

*Google Summer of Code Student*

*Remote*

- Designed and implemented an advanced [Intrusion Detection System](#) powered by Machine and Deep Learning models, boosting threat detection accuracy.
- Enhanced the **Django REST API** by integrating pre-processed KDDCup'99 dataset with custom ML and DL classifiers for real-time intrusion detection.

**Symbiosys Technologies**

June 2019–July 2019

*Software Engineer Intern*

*Visakhapatnam, IN*

- Built a **Python**-based facial recognition system for real-time employee identification via CCTV, increasing security and attendance tracking accuracy.
- Developed and deployed a custom chatbot integrated with **GCP APIs** to enhance user engagement and streamline website functionality.

## PROJECTS

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- **MovieScout**– Developed a real-time movie **recommendation system** powered by a distributed **Matrix Factorization** model implemented in **PyTorch** with **CUDA** acceleration. The system dynamically adapts recommendations based on user interactions, and integrates with **Prometheus** for detailed performance monitoring and scalability insights.
- **Ormen**– Built a lightweight, Go-based **orchestrator** designed to manage Docker containers, providing an accessible platform for developers to explore container orchestration.
- **Alphanumeric Recognition**– Created a **Flask** web app for real-time recognition of handwritten alphanumeric characters and digits using a **Convolutional Neural Network (CNN)**. The app processes user-submitted image using computer vision techniques with Flask.

## PROGRAMMING SKILLS

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**Languages:** Go, Python, SQL

**Technologies:** PyTorch, Kubernetes, Docker, Git

## ACHIEVEMENTS

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- Nominated for the 2023 Kubernetes Contributor Awards for [Sig-Security](#).
- Nominated for the CNCF Security Slam Award for contributions to the [Kueue](#) Project.
- Selected twice for Google Summer of Code -[2020](#) and [2021](#).