

# Adhip Kashyap

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Experienced Backend Engineer with a strong background in Natural Language Processing and Computer Vision. Eager to leverage my diverse set of skills to build AI applications from initial training to deployment.

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## Technologies and Languages

**Languages:** Java, Python, C/C++, TypeScript, Rust, PHP

**Cloud & DevOps:** AWS (S3, DynamoDB, Lambda, IAM, CloudFormation, SQS, SNS), DigitalOcean, Kubernetes, Docker, Terraform, CI/CD, Azure, GCP

**Machine Learning:** TensorFlow, PyTorch, CNN, Encoder-Decoder Networks, Computer Vision, Natural Language Processing, NumPy, ski-image, OpenCV

**Other:** Git, Bash, Linux, Cursor, JIRA, Test-driven Development.

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## Work Experience

### Teaching Solved, Tempe, AZ

Founding Engineer

Aug 2024 – Present

Next.js, React, Tailwind, PostgreSQL, AWS Lambda, S3, Stripe, Clerk, Posthog, Google analytics, Sentry, llama

- Designed and implemented a full-stack platform for teachers to create, share, and sell language resources – integrating authentication, payments, file management, analytics, and error tracking to serve 1,000+ educators.
- Developed a custom RAG solution to enhance search results based on cultural and linguistic relevance.

### InduzBuy, Bangalore, India

Software Engineer Intern

May 2023 – Aug 2023

Laravel, EC2, BERT, Python, TensorFlow

- Improved modularity and cut feature lead time by 20% by migrating from core PHP to Laravel.
- Reduced data processing time from 30 mins to 30 secs with a 95% accurate BERT-based model.
- Decreased deployment errors by 40% by automating EC2 deployments via bash scripting.

### ICICI Lombard GIC, Bangalore, India

Software Engineer

Oct 2019 – Aug 2022

Java, Spring Boot, Neo4j, Redis, SQL, React.js, React Native

- Reduced AWS costs by 30% by migrating a monolith to microservices with auto-scalers.
  - Improved insurance premium computation speed by 40% using a Neo4j-based decision tree.
  - Cut call center revenue loss by 20% during COVID by building a React Native CRM app for sales teams.
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## Education

- M.S. Computer Science, Arizona State University, Tempe 2022 – 2024
  - B.Sc. Mechanical Engineering (Minor: CS), PES University, Bangalore 2015 – 2019
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## Projects

### TCR-Epitope Binding Affinity Prediction

Sep 2023

CNN, Encoder-Decoder, TensorFlow

- Achieved 81% accuracy on 500k+ antigen sequences with a hybrid CNN-encoder-decoder model.
- Enhanced recall by 8% to improve immunotherapy research insights.

### Visual In-context Learning for Image Segmentation and Classification

Jan 2023

Pytorch, Tensorflow, Contrastive learning, Computer Vision, CLIP, ImageNet.

- Designed and trained a MAE-VQ GAN model to perform image segmentation and classification tasks
- Developed a custom embedding model to create positive and negative prompts for contrastive learning.

### LLM Science Exam - Kaggle Competition

Jan 2023

Pytorch, Tensorflow, RAG, Cohere, LLMs.

- Achieved top 100 score in LLM Science Exam Kaggle competition by building a DeBERTa-v3 based RAG to answer STEM multiple choice questions.
- Designed and developed custom knowledge base using Cohere APIs extract relevant data from Wikipedia based on TF-IDF metrics.