Adhip Kashyap

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Versatile Software Engineer with experience across Backend engineering, Web Development, and a strong foundation in AI domains Natural Language Processing and Computer Vision. Proven track record in designing and deploying high-performance web and AI-driven applications. Eager to harness this cross-disciplinary expertise to build scalable, intelligent systems—driving innovation from model training to real-world deployment.

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.

Work Experience

Teaching Solved, Tempe, AZ

Founding Engineer — Aug 2024 – Present
Next.js, React, Tailwind, PostgreSQL, AWS Lambda, RAG, pg-vector, 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.

Education

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

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.

Open Source MathNotes Application — Feb 2025
Python,TensorFlow, tldraw, pic2text, Sympy

- Created an open-source MathNotes application to automatically solve handwritten university-level mathematical equations with an accuracy of 85%.

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.