PRAJWAL V. ATHREYA

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Available for full-time opportunities from May 2025

An MS in AI graduate student with 3 years of industry experience in software engineering and artificial intelligence. Proficient in Python, Go, C++, and Java, seeking full-time opportunities for SDE roles.

EDUCATION

Northeastern University, Boston, MA   2023 - May 2025
Master of Science in Artificial Intelligence
Relevant coursework: Foundations of Artificial Intelligence, Programming Design Paradigm   GPA: 3.9
Natural Language Processing, Algorithms, Cloud Computing, Web Development

Dayanandasagar College Of Engineering, Bangalore, KA   2017 - 2021
Bachelor of Engineering in Automobile Engineering
Relevant coursework: Data Structures in C, Programming in C   GPA: 3.7

EXPERIENCE

Software Engineer (Co-op) - *Akamai, Cambridge, MA* ↗   July 2024 - December 2024

· **CAPL (Cluster API Provider Linode)**

  • Added E2E tests using **Chainsaw** for multiple flavors of kubernetes clusters.

  • Implemented **Linode Cloud Firewall** and **Placement groups** as a default resource for clusters.

· **CSI Driver (Container Storage Interface)**

  • Optimized **GOMAXPROCS** to dynamically scale resource utilization for improved performance during CSI driver operations.

  • Added support for **Block Storage Encryption** of volumes.

  • Integrated **Prometheus** for metrics collection and **Grafana** for enhanced visualization and monitoring.

  • Implemented **OpenTelemetry** to enable tracing of **gRPC** function calls and improve observability.

Software Engineer - *UpUgo & Surgg Pvt Ltd, Bangalore, KA*   November 2021 - July 2023

· **Workout Recommendation System**

  • Containerized this service using Docker. Utilized **Amazon Elastic Kubernetes Service(EKS)** for container orchestration and load balancing.

  • Implemented **in-memory caching** and **CDN-based caching** for APIs resulting in **improved retrieval speeds of approximately 30%**.

  • Setup **AWS Lambda** to fetch data through APIs and start the retraining loop of the recommendation model.

PROJECTS AND CLUBS

Adversarial Attacks on Large Language Models ↗   March 2024
Related Topics: Positional Encoding, Transformers, GPT2, Model Fine-tuning, Generative Model

· Fine-tuned **GPT2 to generate adversarial inputs** with the aim of causing misclassification, **achieving a success rate of approximately 60%**.
· Deployed this generative model with FastAPI as the backend framework to convert the inference module into an API, allowing it to be called upon text for testing adversarial examples.

Image Processing Application ↗   October 2023
Related Topics: MVC Architecture, Multi-Threading, Multi-Processing, Object-Oriented Programming

· Built a full-scale image processing application employing **MVC architecture** in Java.
· Following said architecture and minor optimizations during pre-processing, processing times were **reduced by approximately 70ms, improving the performance by almost 40%**.

SKILLS

Programming Languages	Bash, C++, Java, Node.js, Python, Go
Database	MongoDB, MySQL
DevOps	Docker, EC2, EKS, Elastic Beanstalk, Git, Lambda, S3, Chainsaw
Operating Systems	Linux, Windows