Anand Ravindran

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Education

Arizona State University – M.S. in Computer Science, GPA: 3.72/4 Aug 2024 - May 2026

Relevant Courses: Artificial Intelligence, Machine Learning, Natural Language Processing, Cloud Computing

Manipal Institute of Technology – B.Tech in Computer Science, GPA: 8.08/10 Aug 2018 - July 2022

Relevant Courses: Data Structures and Algorithms, Computer Networks, Operating Systems

Skills

Languages: Python, Go, Bash, C/C++, JavaScript, HTML, CSS, PostgreSQL
Frameworks/Tools: Kubernetes, Docker, Prometheus, Grafana, PyTorch, ServiceNow, Keycloak, React, FastAPI
Systems and Platforms: NVIDIA AI Enterprise, AWS (EC2, S3, DynamoDB), GreenLake, Tableau, Airtable, Windows, Linux, MacOS

Work Experience

AI/ML Engineer Intern, TD SYNNEX – Gilbert, AZ May 2025 – Present

- Developed an Agentic AI based Emergency Response System on the **NVIDIA AI Enterprise** ecosystem, scheduled to be showcased at **TD SYNNEX's Inspire 2025** conference.
- Integrated multimodal LLMs, including **NVIDIA VILA (Vision-Language Model)**, and **Nemotron** for reasoning, alongside a RAG pipeline with **NVIDIA Retriever, Reranker, and Embedder** to generate context-aware insights.
- Built scalable infrastructure with FastAPI, Docker, Postgres, and ChromaDB, deploying NeMo/Nemotron models via **NVIDIA Inference Microservices (NIMs)** for production-ready inference.
- Designed React dashboards and alerting workflows delivering real-time reports and notifications to first responders.

Software Engineer, Hewlett Packard Enterprise – Bangalore, India Aug 2022 – Aug 2024

- Developed **Go APIs** and unit tests to handle Apache Kafka events, **reducing event-processing errors by 50%.**
- **Created Python and Bash scripts** for dynamic role based authorization, automatically syncing added or removed permissions and eliminating manual updates for timely policy enforcement.
- Architected a disconnected environment for HPE Private Cloud by enhancing security with FIPS compliance, and **containerizing GreenLake UI with Docker and Kubernetes, reducing external dependencies by 40%.**
- Implemented Prometheus and Grafana for automated monitoring, significantly reducing incident response times.
- Reconfigured Linux servers and their network infrastructure to streamline VMWare ESXi deployment, integrating with ServiceNow for automated service management and provisioning.
- **Migrated over 20% of the GreenLake PCaaS UI** from React to Next.js.

Software Engineer Intern, Hewlett Packard Enterprise – Bangalore, India Jan 2022 – July 2022

- Engineered an SSH-based security feature for sensitive data, containerizing and automating the solution at scale with Docker and Kubernetes.
- Built a custom UNIX shell in Go using Gin, applying UNIX's chroot for user isolation and strengthened security.

Software Engineer Intern, Innoright Solutions – Hyderabad, India Feb 2021 – Apr 2021

- Built a React based healthcare product to monitor the well being of differently-abled individuals.
- Trained predictive models on video data to detect emotions and analyze facial expressions, enabling earlier intervention for patients by notifying guardians of any agitated behavior.

Projects

Gelada Subspecies Classifier - Research **gelada-classifier.streamlit.app/**

- Built a deep learning pipeline to classify northern vs southern geladas, leveraging Grad-CAM to visualize and interpret distinguishing visual features.
- Deployed a Streamlit web app for real-time image upload and classification.

Machine Learning-Based Disease Prediction from Symptoms

- Developed a universal disease predictor using Machine Learning models and Neural Networks with 98.8% accuracy.
- Applied Neural Architecture Search for tuning and SHapley Additive exPlanations (SHAP) for feature explainability.

2D Platformer Game with Python **github.com/GeometryDash**

- Created a 2D platformer in Python with Pygame, including five levels of increasing difficulty.