Anand Ravindran

530-220-8047 | aravin16@asu.edu | linkedin.com/anandr45 | github.com/proxbar

Education

Arizona State University – M.S. in Computer Science, GPA: 3.89/4 Aug 2024 - May 2026

Relevant Courses: Artificial Intelligence, Statistical Machine Learning, 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++, Java, JavaScript, HTML, CSS, PostgreSQL
Frameworks/Tools: Kubernetes, Docker, Helm, Prometheus, Grafana, PyTorch, ServiceNow, Keycloak, Okta
Systems and Platforms: AWS (EC2, S3, DynamoDB), GreenLake, Windows, Linux (SLES, Ubuntu), MacOS

Work Experience

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
- Configured servers for real time monitoring in OpsRamp using Python scripts, enabling faster anomaly detection and streamlining oversight

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 – Ongoing 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 Random Forest, SVM, and Neural Networks with 98.8% accuracy
- Applied Neural Architecture Search for tuning and SHAP for explainability

Track the International Space Station **github.com/isstracker/**

- Built a real time ISS tracker using HTML5, CSS3, and JavaScript
- Used the Leaflet and wheretheiss APIs to plot the ISS location on a dynamic map with real-time updates

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

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