

# Anand Ravindran

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## Education

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

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

Relevant Courses: Artificial Intelligence, Statistical Machine Learning, Cloud Computing, 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, React, Prometheus, Grafana, PyTorch, TensorFlow, ServiceNow

**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 80%
- 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 Enterprise by reimaging servers, securing networks, and containerizing GreenLake UI with Docker and Kubernetes, reducing external dependencies by 40% and enhancing security
- 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

**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

**Track the International Space Station** [github.com/isstracker/](https://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](https://github.com/GeometryDash)

- Created a 2D platformer in Python with Pygame, including five levels of increasing difficulty
- Implemented a high score feature to maintain a leaderboard across multiple attempts

**Augmented Reality Food Picker** [github.com/FoodEye](https://github.com/FoodEye)

- Won first place for developing "Food Eye", an iOS app leveraging Apple ARKit at the Techathlon '18 hackathon, which scans QR codes to render augmented reality dishes on the user's table
- Enabled interactive food selection by overlaying dish models on the user's table for immersive visualization