Anand Ravindran

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EDUCATION

Arizona State University   **Tempe, Arizona**
Master of Science in Computer Science   *Aug 2024 – May 2026*
Relevant coursework: Artificial Intelligence, Statistical Machine Learning, Cloud Computing

Manipal Institute of Technology   **Manipal, India**
Bachelor of Technology in Computer Science — Minor: Computer Networks and Security   *July 2018 – Aug 2022*
Relevant coursework: Data Structures and Algorithms, Computer Networks, Operating Systems

TECHNICAL SKILLS

Languages: Python, C/C++, Go, Bash, JavaScript, HTML/CSS, PostgreSQL
Frameworks: React, Next.js, PyTorch, TensorFlow
Developer Tools: Kubernetes, Docker, Git, Prometheus, Grafana
Cloud Platforms: AWS, GreenLake

EXPERIENCE

Cloud Engineer I   **Aug 2022 – Aug 2024**
Hewlett Packard Enterprise   *Bangalore, India*
- Worked on creating an air-gapped version of HPE's Private Cloud Enterprise product to ensure maximum operational security for customers
- Developed Go APIs to handle and respond to specific Apache Kafka events sent to designated endpoints
- Developed Python and Bash scripts to dynamically update role-based permissions for authorization mechanisms
- Re-imaged servers and configured their network infrastructure from the ground up, paving the way for robust ESXi cluster deployment and seamless automation of infrastructure management through custom ServiceNow integrations
- Enabled FIPS compliance for systems such as SLES, MinIO, and Postgres, ensuring adherence to security standards
- Wrote unit test cases in Go to support the testing, development, and integration of back-end services
- Ported the GreenLake UI to an air-gapped version by containerizing components with Docker, Kubernetes, & Nginx
- Developed a comprehensive, automated monitoring solution by integrating Prometheus and Grafana for real-time metrics tracking

Research and Development Intern   **Jan 2022 – July 2022**
Hewlett Packard Enterprise   *Bangalore, India*
- Engineered a security feature to restrict SSH access to sensitive data, and containerized, automated, and deployed the solution at scale using Docker, Bash, and Kubernetes
- Developed a custom UNIX shell in Go using Gin, and fortified security with UNIX chroot for enhanced user isolation

Software Engineer Intern   **Feb 2021 – Apr 2021**
Innoright Solutions   *Hyderabad, India*
- Worked on developing a healthcare product, leveraging AI and React, that monitors the well-being of individuals with mental health challenges
- Trained predictive models to detect agitated behavior and seizures in individuals from video data

PROJECTS

Track the International Space Station — Web Dev | *HTML5, CSS3, Javascript*
- Developed a website to track the International Space Station in real-time using HTML5, CSS3, and JavaScript
- Leveraged the wheretheiss.at API to retrieve real-time coordinates of the International Space Station
- Utilized the Leaflet API to display the current location of the ISS on a map using the retrieved coordinates

2D Platformer game with Python — Game Dev | *Python, Pygame*
- Developed a 2D platformer game using Python 2 and Pygame
- Designed 5 levels with progressively increasing difficulty
- Implemented a high score feature to display a leaderboard across all attempts

Augmented Reality food picker — iOS Application | *Swift, ARKit, Javascript, Bootstrap, Git*
- An iOS application called "Food Eye" built using Apple's ARKit during the Techathlon '18 hackathon organized by National Institute of Technology, Calicut
- The application enabled food selection through an app, with QR code scanning then rendering an augmented reality representation of the chosen dish on the table