

Sri Adi Narayana Repudi

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EDUCATION

University of Wisconsin

Master of Science, Computer Science

Dec 2024

EXPERIENCE

Whitman College, Walla Walla, WA

Endpoint Systems Administrator

Apr 2025 – Present

- Led **SCCM to Intune** migration and managed **Windows/macOS** endpoints, covering imaging, patching, and software updates.
- Maintained **Azure Active Directory**, **Group Policy**, and enforced security configurations using **MBAM** and **PDQ Deploy**.
- Automated provisioning workflows with **PowerShell** and **YAML**; supported internal tooling with **Docker** and evaluated **k3s** orchestration.
- Administered **SCCM**, **Intune**, **JAMF Pro**; implemented **OAuth-based authentication** for access control and mentored junior admins.
- Collaborated with InfoSec to align device access with **SAML**, **OAuth 2.0**, and enterprise security protocols for internal systems.
- Configured custom software repositories using **Homebrew** for macOS and **winget** for Windows endpoints to automate secure app deployment.

Sandboard Technologies

Software Developer

Dec 2020 – Jul 2022

- Developed a scalable web portal using **JavaScript**, **HTML/CSS**, **Bootstrap**, **jQuery**, enhancing responsiveness and cross-platform performance.
- Introduced **modular, object-oriented design**; collaborated with UI/UX teams via **Figma** to build accessible components.
- Set up CI pipelines via **GitHub Actions** and **YAML** workflows for linting, builds, and deploys.
- Improved load times by **30%** through optimization and **CDN caching**; enhanced Lighthouse metrics and cross-browser compatibility.
- Created test/debug tools and formalized version control strategies to prep the team for DevOps integration.
- Developed a scalable web portal using **JavaScript**, **PHP**, **HTML/CSS**, **Bootstrap**, **jQuery**, enhancing responsiveness and cross-platform performance.

Amrita Sai University

Student Assistant

Feb 2019 – Mar 2020

- Built an **interactive dashboard** with **React.js + TypeScript** for research data visualization.
- Integrated **REST APIs** and **WebSockets** for real-time monitoring; reduced page load by **30%** using lazy loading.
- Ensured responsive, cross-browser UI compatibility across devices.

SKILLS

Languages: JavaScript (ES6+), TypeScript, Python, Go, Java, C#, PHP, SQL, Bash, PowerShell

Frameworks & Libraries: React.js, Node.js, Express.js, Spring Boot

DevOps & Monitoring: Azure Monitor, Prometheus, Grafana, GitHub Actions, YAML, SDLC

Infrastructure & Cloud: Azure, Azure Active Directory, AWS S3, Docker, Kubernetes (k3s), IaC concepts

Backend & APIs: REST API, OAuth 2.0, JWT, WebSockets, Micro frontends

Databases & Storage: PostgreSQL, MySQL, Azure Blob Storage

System Tools: SCCM, Intune, Azure Active Directory, Group Policy, PDQ Deploy, MBAM, SentinelOne, Homebrew, winget

Security: SAML, OAuth 2.0, Windows Authentication, Endpoint Protection (SentinelOne)

Version Control: Git, GitHub

RELEVANT COURSEWORK

Data Structures and Algorithms (Java), Software Development Life Cycle (SDLC)

PROJECTS

Resilient File Sync System with Fault-Tolerant Design

Go, PostgreSQL, REST API, Azure Blob Storage, Load Balancer, Bash

- Designed a distributed file sync tool in **Go** with concurrent file uploads and retry logic for high-availability across multiple regions.
- Implemented chunked file transfer and metadata caching to optimize performance under low bandwidth.
- Built robust REST endpoints for uploads and metadata retrieval; ensured transactional consistency via **PostgreSQL**.
- Deployed to VMs behind an Azure Load Balancer with **read/write sharding** for scale-out support.
- Automated cron jobs with **Bash scripts** and wrote **YAML** configurations for containerized sync tasks.

DevOps Metrics Dashboard for CI/CD Observability

React.js, Node.js, Grafana, Prometheus, Azure Monitor, SQL

- Developed a real-time observability dashboard to track CI/CD metrics such as build success rates, failure trends, and deployment times.
- Queried **Prometheus** and **Azure Monitor** logs to extract pipeline data and visualized via custom **Grafana** panels.
- Created a backend with **Node.js** and Express to store pipeline logs and alert metadata in **SQL**.
- Enabled trigger-based notifications for failed builds and threshold violations using **webhook alerts**.
- Improved pipeline stability through visual tracebacks, **test case aggregation**, and root-cause trend analysis.

Internal Access Audit API for Endpoint Compliance

Python, FastAPI, SQLite, SentinelOne API, OAuth 2.0

- Developed an internal microservice to track device compliance status using the **SentinelOne API** and exposed secure endpoints via **FastAPI**.
- Implemented OAuth 2.0-secured access control for IT admins to query real-time threat status and endpoint health summaries.
- Scheduled periodic scans and ingestion of device threat metrics, storing results in a lightweight **SQLite** DB for audit retrieval.
- Used PowerShell scripts to trigger compliance checks from endpoint devices and send webhooks to the API on event detection.
- Ensured secure logging and role-based access to audit endpoints, improving compliance visibility across 50+ devices.

ACHIEVEMENTS

Rockwell Automation Hackathon Winner

CSI, University of Wisconsin

Sep 2023 - Dec 2023

- Secured **3rd place** by developing a chatbot using **RAG architecture** and **UI for chatbot**.
- Designed a **scalable interactive bot** leveraging Azure AI capabilities.
- Earned recognition from **Microsoft** and **Rockwell Automation** for collaboration and technical excellence.