

Sachintra Natarajan Vijeya Kumar

✉ sachintranv@gmail.com 🌐 sachintra.github.io  Sachintra  Sachintra

PROFESSIONAL EXPERIENCE

Hewlett Packard Enterprise

Bengaluru, Karnataka

Software Engineer II - Cloud Platform Development

Aug 2022 – Present (3+ Years)

- Architected and developed Disconnected Management Solutions in Go and Python, enabling air-gapped hybrid cloud deployments for enterprise customers across 3 product lines. [\[Press Release\]](#)
- Designed and managed Kubernetes clusters with Helm charts and Mayastor storage orchestration; built CI/CD pipelines and container-based deployment tooling, reducing release cycles by 30%.
- Implemented system security features including secure authentication with password-policy enforcement, TLS certificate management, and role-based access controls (RBAC) for multi-tenant environments.
- Developed RESTful APIs and backend microservices for Private Cloud and Storage platform integration, collaborating cross-functionally with 4 engineering teams to onboard business-critical workloads.

INTERNSHIP EXPERIENCE

Tata Consultancy Services

Bengaluru, Karnataka

Project Intern

Feb 2022 – Jun 2022

- Developed a Real Estate Management System PoC using Java and Spring Boot, building RESTful APIs for property listing, search, and CRUD operations serving 500+ mock property records.
- Implemented user authentication and authorization with OAuth 2.0 and JWT, reducing authentication errors by 40% and enforcing secure session management across the platform.

SeaportAI

Chennai, Tamil Nadu

SDE Intern

May 2020 – Jul 2020

- Built and deployed a responsive web application using React (frontend) and Flask (backend), integrating RESTful APIs for managing OCR services and ML-based image processing pipelines.

PROJECTS

File Locker | Go, PostgreSQL, Redis, MinIO, Preact, Docker

2024

- Built a self-hosted encrypted file storage system with AES-256-GCM encryption, supporting encrypted video streaming with seek and a CLI tool featuring 38 commands, deployed on Raspberry Pi.

Blog Diary Platform | Docker, Nginx, GitHub Actions, Raspberry Pi

2023

- Developed a Dockerized blogging and Q&A platform with CI/CD via GitHub Actions, Nginx reverse proxy, and automated deployment pipeline on Raspberry Pi.

Disaster Management Portal | Python, TensorFlow, Flask, Raspberry Pi

2021

- Built a web-based disaster zone prediction and management system using deep learning for drone-based image recognition, deployed on edge hardware (Raspberry Pi) for real-time inference.

IoT Home Automation | ESP32, MicroPython, Google Cloud, ThingSpeak

2020

- Designed an IoT-based home automation system using ESP32 and Raspberry Pi with a web interface, integrated with Google Cloud Logging and ThingSpeak for real-time monitoring and control.

TECHNICAL SKILLS

Languages: Go, Python, Java, C++, JavaScript, SQL, Bash/Shell Scripting

Cloud & Infrastructure: Kubernetes, Docker, Helm, CI/CD Pipelines, Infrastructure as Code (IaC), Cloud-Native Architecture

Backend & Frameworks: RESTful APIs, Microservices, Node.js, Express, Spring Boot, Flask, ReactJS, Next.js

DevOps & Tools: Git, GitHub Actions, Linux/Unix, Container Orchestration, Agile/Scrum, Unit Testing

Storage & Databases: PostgreSQL, MongoDB, Redis, MinIO, Mayastor (Cloud-Native Storage)

Specialized: System Security, TLS/RBAC, CUDA, IoT (Raspberry Pi, ESP32), Edge Computing

CERTIFICATIONS

- Microsoft Certified: Azure Fundamentals
- Deep Learning Specialization (Coursera)
- Server-side Development with NodeJS & MongoDB
- NVIDIA: Fundamentals of Deep Learning

EDUCATION

Vellore Institute Of Technology University

2018 – 2022

Bachelor of Technology in Information Technology - GPA 8.2/10

Vellore, Tamil Nadu

Sainik School Amaravathinagar

2009 – 2017

CBSE XII and CBSE X

Tiruppur, Tamil Nadu

ACHIEVEMENTS

- VIT Mathathon 2020 - **Runner Up**: Developed a mathematical optimization model for Chennai reservoir water management, competing against 200+ teams.
- National Cadet Corps (NCC) - **NCC A & B** Certificates: Completed 7 years of leadership training and discipline in NCC Senior Wing at Sainik School.

INTERESTS

Distributed Systems · Cloud-Native Architecture · Kubernetes & Container Orchestration · System Security · Edge Computing & IoT · Storage Systems · Machine Learning Systems · Software Architecture