

Rohit Vemparala

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Education

Boston University

2023-2025

MS in Computer Science (spec. Data-Centric Computing)

GPA: 3.79

Courses: Distributed Systems (Teaching Assistant), Data Systems Architecture, Streaming Systems, Data Engineering

Work Experience

Cloud Services Intern - Staples Inc. (Framingham, MA)

Jun 2024 - Aug 2024

- Provide operational support for all Staples Cloud Infrastructure hosted on **Azure** (Azure Kubernetes Services).
- Automating Linux (**RHEL**, **CentOS**) and Windows OS patching with **Puppet**, AKS engine upgrade (**ArgoCD**)

Senior Devops Engineer (Associate Vice President) – Protium

Jan 2022 - Aug 2023

- Authored several **Golang** binaries, wrote various **Powershell**, **Python** and **Bash** scripts automating various tasks
- Developed an **Elasticsearch** backend (**AWS OpenSearch**, **AWS Lambda**, **Cloudwatch**) for processing millions of records in milliseconds - with a **Flask** application providing various **REST APIs** and **Postgres DB (Amazon Aurora)**
- Maintained **Kubernetes** clusters with **AWS CDK** - migrate various services using **Helm**, **Docker** and **Gitlab CI/CD**
- Led cost-optimization effort achieving major cost savings of **\$10000** monthly for cloud infrastructure
- Architect cloud infrastructure via Infrastructure as Code - **Terraform**, **AWS Cloudformation** and **AWS SAM**
- Addressed various security-related items (CIS 1.4, AWS Foundational Security), single sign-on with **AWS SSO** integrated with on-prem **Active Directory**, automated infrastructure patching with **Ansible** and observability with **OpenTelemetry Agent (OTEL)**, **Kibana** and **AWS CloudWatch**

Associate Software Development Engineer 1 – Publicis Sapient

Jul 2020 - Dec 2021

- Developed various **microservices** with **Spring**, **Java**, **Maven (REST API)** and **React**, for a business activity monitoring system at Goldman Sachs (Transaction Banking) with CDN (**AWS CloudFront**)
- Wrote a real-time processing (**Apache Flink**) application with **AWS S3** for checkpointing, running on **AWS ECS Fargate** - processing millions of events from multiple **Apache Kafka** topics, storing results in **Amazon Aurora DB** and observability (consumer lag) with **Datadog** and **PagerDuty**
- Developed a proof-of-concept real-time visualization application built with a reactive architecture using **Spring Webflux**, **HTTP Server-Sent Events (SSE)** and **React (RxJS)** with **MongoDB** change streams

Certificates

- [Microsoft Certified - Azure Fundamentals](#)
- Research Paper - Parallelizing Image Encryption Algorithm for Wireless Sensor Networks
- Climate Innovation Challenge – Won \$2500 prize for exceptional climate-focused innovation at BU.

Projects

Custom FS Syncer: Developed a file system tracker daemon in **Golang** using Linux **INOTIFY** watchers for an opensource tool deployed on **Kubernetes** in a multi-tenancy setup. It also had a rollback system for changes and could sync with an **S3** bucket and version control and receive commands from a **Gitlab Pipeline**

Secure Infra Access: Designed **Golang** application to provide access to private networks to external vendors using a combination of tunneling (**AWS SSM**, **Squid**) and reverse proxy (**Traefik**) with identity management (**AWS IAM**, **AD**)

Data Processing Automation: Automate batch job execution of an organization's various data processing scripts and ETL pipelines that ran 24/7 sourcing data from various sources (**Kafka Topics**, **AWS SES**, **S3**, **Postgres**) using **Apache Airflow** and develop DAG to deploy tasks to **Amazon ECS Fargate**