

SRINIVAS CHARAN MADU

+91 8179373590

vmadu@uw.edu/srinivascharanmadu@gmail.com

www.linkedin.com/in/charan999

<https://github.com/Charan000>

EDUCATION

Master of Science in Information Management
Specialization in Data Science
University of Washington, Seattle
Seattle, WA, USA
Sept 2023 - Dec 2024

Integrated Master of Technology in
Computer Science and Engineering
International Institute of
Information Technology
Bangalore, KA, India
Aug 2015 - July 2020

SKILLS

Languages: Java, C#, C++, Python

Libraries/Frameworks: .NET, Swagger,
React Native, D3.js

Technologies: Azure, Git, Docker

Concepts: Data Structures, Algorithms,
Cloud computing, Software Engineering,
Data Science, Data Visualization

LEADERSHIP AND ACHIEVEMENTS

Institute Gold Medal for the All-Rounder of
the year, i.e, graduating batch of 2020,
awarded by IIITB.

Entrepreneurial Lead at GDC I-NCUBATE
Cohort 10 (Bootcamp program for
students with business ideas, by IIT
Madras), representing the team Raydius,
to develop the business model and
customer validation of the team's idea.

Elected member of the Student Activity
Council at IIITB for the year 2016.
Coordinated with students and college
administration relating to different
student activities and events all around
the year.

Head of Aikyam (Social Service
Community of IIITB) for two years.
Volunteered and led activities of the club
like fundraisers, donation drives, blood
donation camps and orphanage visits.

WORK EXPERIENCE

MICROSOFT

Aug 2020 - Aug 2023

Software Engineer - Azure Backup

Hyderabad, India

- Designed and developed *Multi-user Authorization* feature for Azure cloud backup vaults, safeguarding over **2000 vaults** across nearly **400 subscriptions** against Ransomware attacks and malicious/accidental actions.
- Contributed to the integration of *Built-in Azure Monitor alerts* into Azure Backup, enabling alerts for critical backup security incidents and job failures, currently operational in over **1500 backup vaults** with ongoing expansion.
- Optimized the *Configure backup* operation for IaaS VMs with Azure Recovery Services Vault by identifying and resolving inter-service sync issues, resulting in an impressive **82% reduction in failure rate**.
- Improved the efficiency of rollover process and automated the cleanup for authentication certificates associated with Azure Workload containers, **saving 3 days** of effort of Azure Backup Ops team to manually rotate over **100 certificates** every month.

IIITB INNOVATION CENTRE

Jan 2020 - June 2020

Product Developer Intern

Bangalore, India

- Developed Raydius : A Map-based digital platform to discover and share the happenings of a neighborhood.
- Conducted **Market Research** and customer discovery process through **75** interviews and constructed a business model for Raydius.
- Produced an MVP of the final product idea, a Cross-Platform Mobile Application (Android and IOS) using **React Native** and **NoSQL** database.

HYPERREALITY TECHNOLOGIES

Aug 2019 - Nov 2019

Software Developer Intern

Bangalore, India

- Developed Interactive Virtual Reality simulations like assembly/usage of a fire extinguisher and Real world scale visualization of Real Estate.
- Used **C#**, **Unreal Engine** and to build and test the VR simulations.
- Organized meetings with multiple stakeholders and demonstrated the developed simulations to clients.

PROJECTS

- TELECOMMUNICATION SPECTRUM DATA VISUALIZATION** : Interpreted the dense Indian telecom data using **D3.js**-based visualizations and data processing with **Java**. Built a continuous deployment pipeline (**CDP**) using **Jenkins**, **Docker**, **ELK** and **AWS** for team collaboration.
- AGENT BASED MODELING OF DRUG RESISTANT DISEASES** : Developed an **Agent-Based model** to simulate the onset of drug resistance in the tuberculosis bacteria and subsequent spread of tuberculosis among humans in a constrained environment using **Java**, **Python** and Repast City framework.