

Srinivas Charan Madu

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EDUCATION

University of Washington, Seattle

Seattle, WA | Sept 2023 - Sept 2024

Master of Science in Information Management - Data Science

CGPA: Yet to start

International Institute of Information Technology, Bangalore

Bangalore, India | Aug 2015 - July 2020

Integrated Masters of Technology in Computer Science and Engineering

CGPA: 3.48/4.0, *Institute Gold Medal* [↗](#)

Coursework: Data Structures, Algorithms, Data Science, Programming, Software Engineering

WORK EXPERIENCE

MICROSOFT | Software Engineer

Hyderabad, India | Aug 2020 – Aug 2023

- Implemented **Multi-user authorization** [↗](#), which allows users to add an authorization mechanism on the vaults that store cloud backups of various Azure resources. It protects the vaults against **Ransomware** and malicious/accidental insider actions, currently protecting more than 2000 vaults across 400 subscriptions and growing.
- Contributed in adding **Azure Monitor alerts** [↗](#) for Azure Backup, by sending alerts to users for critical scenarios related to backup security and job failures, enabled for more than 1500 backup vaults and growing.
- Optimized the **Configure backup** [↗](#) operation for IaaS Virtual Machines with Azure Recovery Services Vault, by identifying and resolving inter-service sync issues and reduced the failure rate by 82%.
- 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 certs every month.

IIITB INNOVATION CENTRE | Product Development Intern

Bangalore, India | Jan 2020 - Jun 2020

- 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 **Google Cloud Firestore**.
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SKILLS

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

Databases: SQL, Azure Storage (NoSQL), Kusto

Libraries/Frameworks: Swagger, OpenGL, D3.JS, Direct3D, React Native

Technologies: Azure, Git, Docker, Unreal Engine

Concepts: Cloud Computing, Distributed Systems, Software Engineering, Data Visualization, Computer Graphics

PROJECTS

- TELECOMMUNICATION SPECTRUM DATA VISUALIZATION** [↗](#): Interpreted the dense Indian telecom spectrum data using **D3.JS**-based visualizations. Built a continuous deployment pipeline to host the visualizations on a website using **Jenkins**, **Docker**, **ELK** and **AWS**.
 - 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. Used Repast City Framework (**Java**) for visual representation.
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LEADERSHIP AND ACHIEVEMENTS

- Institute Gold Medal for the All-Rounder of the year, i.e, graduating batch of 2020, awarded by IIITB, for exceptional all-round activities like academics, community, and organization.
- 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 different activities of the club like fundraisers, donation drives, blood donation camps and orphanage visits.