SRINIVAS CHARAN MADU

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EDUCATION

Master of Science in Information Management Specialization in Data Science University of Washington, Seattle

Seattle, WA, USA Sept 2023 - Aug 2024

Integrated Master of Technology in Computer Science and Engineering International Institute of Information Technology

Bangalore, India Aug 2015 - July 2020 CGPA: 3.48/4.00

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SKILLS

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

Libraries/Frameworks: Swagger, React

Native, D3.js

Technologies: Azure, Git, Docker

Concepts: 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

Software Engineer

Aug 2020 - Aug 2023 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 laaS 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.

PROJECTS

TELECOMMUNICATION SPECTRUM DATA VISUALIZATION &

- Implemented run-time visualization of Indian telecom spectrum data using D3.js for frontend visualization and Java for backend.
- Built a continuous deployment pipeline (CDP) using Jenkins, Docker, ELK and AWS to collaborate with team, and then deployed the end result on Netlify.

AGENT BASED MODELING OF DRUG RESISTANT DISEASES $\mathscr D$

- 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 GIS data of an urban environment to emulate human movement and the rate of spread based on the type of location.
- Used Java, Python and Repast City Framework for the model development and data visualization.