Subbarao Garlapati

Education

Georgia Institute of Technology, Atlanta, GA   May 2023
- Master of Science in Computer Science - Machine Learning
- Bachelor of Science in Computer Science
  - GPA: 3.82/4.00

Work Experience

Meta, Menlo Park, CA   May 2022 - Aug 2022
Software Engineer Intern
- Created a command line tool that does performance analysis on CPython binaries vs Meta's performance-oriented fork of CPython (Cinder)
- Additional features include codemodding using Bowler, pull request generation, dataset logging, and python version analysis
- Already being used by teams to onboard onto Cinder and by the Cinder team to automate analysis, formally report/query analysis results, and demonstrate performance wins

MessageGears, Atlanta, GA   June 2020 - May 2022
Cloud Team Intern
- Written 50+ pull requests interacting with a wide variety of tools, including SQL, Redis, PMTA, and AWS, and helped deliver critical features a quarter before scheduled
- Designed and developed a core encryption library to ensure federal PII compliance using Amazon Key Management Service (KMS) and Redis Cache

NCR Corporation, Atlanta, GA   May 2021 - Aug 2021
Software Engineer Intern
- Lead the Node.js/Express backend development of a React application that will enable NCR POS and sevices to seamlessly switch between running NCR business services and community vaccination centers

School Experience

Edge Computing Research   Jan 2021 - May 2022
- Helped to design and implement a low-cost edge cluster system architecture for scalable camera processing under the guidance of Dr. Kishore Ramachandran
- Created a 14 node raspberry pi cluster and ran a camera processing application on it with different configurations using Docker, Kubernetes, and OpenFaas

Teaching Assistant - CS 2200 Systems and Networks   Jan 2021 - Dec 2021
- Designed course materials to comprehensively assess understanding of course concepts
- Taught recitations and held office hours every week to help students overcome conceptual blocks, debug code, and learn new course material

Activities and Leadership

Epic Intentions   Jan 2020 - Dec 2020
Project Lead
- Lead a team of students in creating a project management tool to assist the nonprofit Old Fourth Ward Business Association in creating a Community Improvement District
  - Hosted at https://o4wepictool.github.io
- Worked with the nonprofit Partnership for Southern Equity to design a tool that will analyze and display geospatial neighborhood census demographic data layers

Junior Stem   Aug 2019 - Present
- Facilitating student involvement in STEM initiatives to promote and increase retention of underrepresented minorities through outreach events at Atlanta-area public schools

Contact

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Skills

Java
Git
C
Python
Agile
Docker
Kubernetes
JavaScript
Spring
HTML/CSS/Bootstrap
Node.js

Certifications

AWS Certified Solutions Architect - Associate (SAA-C02)
Microsoft Azure Fundamentals (AZ-900)

Relevant Coursework

Honors Algorithms
Data Structures and Algorithms
Computer Organization and Programming
Discrete Mathematics
Second Course in Linear Algebra
Objects and Design
Systems and Networks
Design Operating Systems
Graduate Algorithms
Intro to Number Theory

Languages

Spanish
Telugu