

M S Akhil Teja

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EDUCATION

Master of Science - Computer Science, GPA: 3.86

2023

University of Colorado Boulder, Boulder, CO

- Distributed Systems, Advance Network Systems*, Big Data Architecture, Data Centre Scale Computing, Design and Analysis of Algorithms*, Machine Learning.

Bachelor of Technology - Computer Science and Engineering

2017

Indian Institute of Technology, Guwahati, Assam

- Computer Networks, Operating Systems, Compilers, Databases, Software Engineering, Algorithms.

EXPERIENCE

Student Co-op, Nokia America Corporation (Bell Labs), Naperville, Illinois

May 2022 - Present

- Automating the deployment of Nokia's cloud containerization platform and infrastructure on OpenStack. Provisioning, Configuring and Optimizing the infrastructure for Nokia's 5G Network Node packages.
- Presented new methods to maintain this infrastructure and enhanced the DevOps software development life cycle.

Senior Software Engineer, Electronics for Imaging, Pvt. Ltd, Bengaluru, India

May 2020 - July 2021

- Enhanced EFI product installation tool by implementing cloud, network, and multi-USB installation methods.
- Achieved Mopria certification by introducing cloud, NFC tap-to-print, and wireless printing capabilities for EFI print ecosystem, thereby enabling unparalleled interoperability between brands, in a team of eight.
- Bestowed with Employee of the Quarter (Apr-Jun 2021) for consistent top performance in Fiery IDC team.

Senior/ Software Engineer, Samsung Research Institute, Bengaluru, India

June 2017 - May 2020

- Created a utility package that semantically validated cloud-native 5G Core Network inter-service communication messages against 5G specifications and performed faster than LibYAML and Swagger.
- Coded a discrete event network simulator to test the behavior and performance of 5G Cloud Native Core Network.
- Designed a novel semi-supervised learning algorithm that optimized paging signaling overhead by generating a dynamic Tracking Area List configuration in 4G LTE after thorough research of current academic literature.
- Spearheaded development of platform-agnostic, stateless, CaaS deployable micro-services based cloud-native 5G Core Network using CI/CD process and was awarded Samsung S.P.O.T for the commitments toward the project.
- Illustrated POC model for 5G Mobile Edge Computing Network as team of four. Worked on Samsung EES node.
- Granted Samsung E.V.P award for contributions in Stabilizing and Commercializing the LTE-vGW for Jio across 140,000 sites pan India.

Software Development Intern, Samsung Research Institute, Noida, India

May 2016 - July 2016

- Envisioned and built a desktop version of an intelligent dialer application based on call log data, contacts, messages, and calendar information by developing a novel learning algorithm.
- Recognized as Samsung Best Intern (Summer 2016) for innovative contributions to the Samsung Gallery team.

PROJECTS

Distributed Systems, Dr. Shivakant Mishra, University of Colorado, Boulder

February 2022 - April 2022

- Formulated a Swarm Computing framework for image-sensing applications leveraging the idle computational power of a distributed network of camera systems. Components: scheduler, tracker, and streaming manager.
- Developed an Online Market Place with RESTful client-server interactions, gRPC supported Server-Database connections, stateless front-end, and Distributed Databases operating Raft, rotating atomic sequencer protocol.

Activity Recommender System, Dr. Dirk Grunwald, University of Colorado, Boulder

August 2021 - November 2021

- Launched an interactive, auto-complete enabled web interface which suggested a list of exciting activities that give users an enjoyable experience for a particular location and time employing google maps UI and GeoCode API.
- Created a resilient and sustainable end-to-end system, working with JavaScript, REST APIs, Messaging Queues, Kubernetes, Docker, and Python in a team of two.
- Implemented using RabbitMQ, Google Maps API, PostgreSQL, Flask, Postman, JavaScript, Redis Db.

TECHNICAL SKILLS

- C++, C# .NET, C, Python, Java, Django, SQLite, SQL, Hadoop, PySpark, Arduino, Keras, Google Cloud Platform, Selenium, webRTC, NodeJS, Android, Linux, NS3, 3GPP, 5G (NR), 4G (LTE), Raspberry Pi, REST APIs, Sockets, NTP, CloudLab, Concurrent Programming, elastic search, Whoosh, Unity, HTTP2, Nhttp2, Agile Methodology, Iterative Waterfall Model, RSA, AES, SHA, MongoDB, Git, Perforce, BGP, TCP/IP, SOA, D3.js.