Guest speaker series
Internet of Things for Engineers
Spring 2026
https://gwu-mae6291-iot.github.io/spring2026/

Jitish Kolanjery

Jitish Kolanjery, has 20+ years of experience in networking and embedded systems and has held various senior-level engineering positions in Ericsson, Cisco, Cruise and is currently positioned at Google.

He has 12+ years' experience in software development with C/C++, for autonomous vehicles, embedded systems, routing and connectivity protocols, and media/network telemetry. He has designed and implemented algorithms using efficient data structures in multithreaded environments and has a deep understanding of complex system designs, statistical traffic modeling, and layer 2/3 protocol design. wireless networks, discrete-event simulators, and location algorithms for sensor networks and medium access control design. At Ericsson and Cisco, he worked on large-scale enterprise solutions for ISPs, corporate/campus networks, and datacenter networks. He developed software for routers and switches, implementing standard networking functionalities and protocols. He joined Cruise (GM) and managed connectivity for their cars. During his time at Cruise, he developed novel solutions for small, embedded devices. Currently, at Google, he is back in the domain of designing solutions for large-scale datacenter networks.

Jitish earned his undergraduate degree in Electronics and Telecommunications from the University of Mumbai with a focus on computer networks. He received his MS degree from The George Washington University, where his thesis was a study of protocols for ad hoc networks and proposed modifications to reduce power consumption.

Abstract:

The interactive presentation will cover basic networking concepts: standard topologies, OSI layers, and the nature of traffic carried by networks and protocols. The audience will be introduced to well-known protocols, identify relevant parameters/requirements, and delve into the basics of protocol design. Finally, given a set of requirements and parameters, the audience will help design a complete protocol for point-to-point communication between two devices.

Date: February 25, 2026
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