

Hey, I'm

Nazim Madhavji

I live here

madhavji@gmail.com

Courses

- CS 9549b: Software Architectures
- CS 9864b: Software Engineering for Big Data
Applications and Analytics
- Coordinate Undergraduate courses:
 - Internship, Capstone, Theses, Inter-university, Mainframe.
- CS 9863b: Empirical Research Methods
- CS 9551a: Requirements Engineering

Learning Objectives - CS9549b

(Software Architectures)

- Different types of software architectures
- Quality attributes, tactics, tradeoffs, sensitive points, risks
- Architectural design approaches
- Evaluation of architectures
- Group work – Architectural project on a cloud
- Micro-services and architecture

Learning Objectives - cs9864b (SE for Big Data Applications and Analytics)

- Domain of Big Data and Data Analytics
- Emerging work on SE and Big Data (research papers)
- Focus:
 - Mainly: SE for Big Data applications
 - Little: Big Data for SE (a.k.a “Software Analytics”)
- Project (2017): Create Big Data application on a cloud using micro-services:
 - Stock market
 - Climate events
 - etc.

Research Focus

- Requirements Engineering (RE)
- RE for Big Data applications
- Cloud infrastructures
- Software/System Architectures
- Complex Defects
- Compliance issues in Development

Example Research Topics

- Big Data in RE & Corp. decision-making
- Requirements Analytics in large projects
- Cloud architecture simplicity
- Micro-services: monitoring, extensibility & customisability
- Compliance issues in RE
- Requirements specification (SRS) validation
- Multiple Component Defects (MCDs)
- Faulty component detection

OK, let's get cracking!

And don't fear the Unknown!

