

Hey, I'm

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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
- Focus:
 - Mainly: SE for Big Data applications
 - Little: Big Data for SE (a.k.a “Software Analytics”)
- Project (2018): Create Big Data application on a cloud using micro-services:
 - Stock market
 - Climate events
 - etc.

Research Themes

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

Example Research Topics

- RE model for Big Data application systems
- Requirements Analytics in systems engineering projects
- Cloud architecture simplicity and performance
- Micro-services: monitoring, extensibility & customisability
- Compliance issues in RE
- Multiple Component Defects (MCDs)
- Faulty component detection

Research Character

- Empirical research methods
- Collaboration with industry

... and not fear the Unknown!

