

CMPT 473
Software Testing, Reliability and Security

Epilogue

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A wide array of topics

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- Core Testing
 - Challenges in unit testing
 - Testability
 - Designing tests
 - Adequacy measures
 - Applying them in your workflow

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 - Static + Dynamic analysis
 - Tool assisted testing
 - Symex, Fuzzing, Property Based

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- Experimentation + Stats
 - Performance
 - A/ Testing
 - Chaos Engineering

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- Formal Methods
 - Verification tools

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 - Experimentation + Stats
 - Performance
 - A/ Testing
 - Chaos Engineering
 - Formal Methods
 - Verification tools
- + a little on risk

But there is *always* more

- Each topic could be a *full course*
- Each topic is typically *customized* when applied in a domain

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- Each topic could be a *full course*
- Each topic is typically *customized* when applied in a domain
- You will spend the rest of your career building on these & tailoring them

What else might you take?

- CMPT 354 – Databases
- CMPT 454 – Databases II
- CMPT 431 – Parallel and Distributed Programming
- CMPT 383 – Comparative Programming Languages
- CMPT 477 – Verification
- CMPT 362 – Mobile Application Programming
- CMPT 363 – User Interface Design

What else might you take?

- CMPT 354 – Databases
- CMPT 454 – Databases II
- CMPT 431 – Parallel and Distributed Programming
- CMPT 383 – Comparative Programming Languages
- CMPT 477 – Verification
- CMPT 362 – Mobile Application Programming
- CMPT 363 – User Interface Design

BUT Don't stop there...

- MIT's Software Construction Course

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